NACOmatic

Effective: 23-Sep-2010 Expires: 18-Nov-2010



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GENERAL INFORMATION This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the FAA

Department of Transportation, National Aeronautical Navigation Services, Silver Spring, Maryland 20910. It is designed fo

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as

use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

Washington, DC 20591 Telephone 1-866-295-8236 Fax 202-267-5322 Email 9-ATOR-HQ-AIS-AIRPORTCHANGES@FAA.GOV

FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: http://nfdc.faa.gov/portal/airportchanges.do FAA, Aeronautical Information Services, ATO-R, Rm. 626

soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

800 Independence Ave., SW

navigational facilities and certain special notices and procedures.

applicable to civil users.

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

Airenage Information*

	All pur t illiurillation	All Space Illiui Illatiuii
Effective Date	Cut-off date	Cut-off date
23 Sep 10	11 Aug 10	22 Jul 10
18 Nov 10	6 Oct 10	16 Sep 10
13 Jan 11	1 Dec 10	11 Nov 10
10 Mar 11	26 Jan 11	6 Jan 11
5 May 11	23 Mar 11	3 Mar 11
30 Jun 11	18 May 11	28 Apr 11

Airport Information

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1305 East West Highway

Silver Spring, MD 20910-3281

Telephone 1-800-626-3677

Email 9-AMC-Aerochart@faa.gov

Frequently asked questions (FAQs) are answered on our website at http://aeronav.faa.gov.

See the FAQs prior to contact via toll free number.

FOR PROCUREMENT CONTACT:

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Fax 301-436-6829

or any authorized chart agent.

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical

line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

^{*}Including changes to preferred routes and graphic depictions on charts.

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ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms m be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatic variations of the basic form. (Example-"req" may mean "request", "requesting", "requested", or "requests"). Army Air Field byd bevond AAF

Airbase C Commercial Circuit (Telephone) AB CGAF Coast Guard Air Facility abv ahove

ACC Air Combat Command: Area Control CGAS Coast Guard Air Station Center CIV Civil

acft aircraft clsd closed

ADCC Air Defense Control Center comd command

approach end rwy CONUS Continental United States AFR

CSTMS AFB Customs

Air Force Base

AFHP Air Force Heliport ctc contact

airfield control ctl

afld

AFOD US Army Flight Operations Detachment dalgt daylight

Dec December

AFRC Armed Forces Reserve Center/Air Force

Reserve Command DIAP DoD Instrument Approach Procedure

Automated Flight Service Station DoD **AFSS** Department of Defense

Agriculture DSN AG

Defense Switching Network (Telephon

A-GEAR Arresting Gear dsplcd displaced durn duration ΔGI above ground level

AHP Army heliport eff effective ALS Approach Light System emerg emergency

alt altitude FOR End of Runway AMC Air Mobility Command ETA Estimated Time of Arrival

Air National Guard Station ETD Estimated Time of Departure ANGS approach exc except anch

April Apr extd extend

APU Auxiliary Power Unit FRO fixed-base operator

ARR Air Reserve Base Feb February

arpt airport fld field Air Reserve Station FLIP Flight Information Publication ARS

AS Air Station flt flight

ASDE-X Airport Surface Detection Equipmentfollow flw

Model X Fri Friday

ASU Aircraft Starting Unit Flight Service Station

ATC Air Traffic Control GΑ glide angle

ATCT Airport Traffic Control Tower GCA Ground Controlled Approach

Aug August GS glide slope

All Up Weight (gross weight) haz hazard available

ΔΠΙΜ ΗQ avhl Headquarters bcn heacon

CONTINUED ON NEXT PAGE

GENERAL INFORMATION

3

CONTINUED FROM PRECEDING PAGE

	npi	non precision instrument
Procedure	NS ABTMT	Noise Abatement

ΙΔΡ Instrument Approach F e Ahatement ICAO

hr

lan

JASU

IOAP

IRR

hul

lun

Κt LAA

lhs

ldø

lgtd

lgts LMM

LOC

LOM

MACC

MCAF

MCALE

MCAS

MCB

med

Mil

min

MIS

MM

Mon

MP

MSL

MSAW

NAAS

NADO

NAEC

NAES

NALCO

NALO NALE

NAS

NAWC

NAWS ngt

NOLF

Nov

NAF

NADEP

MFTRO

Mar

ltd

LAHSO

JOSAC

hour

January

July

June

Knots

nounds

landing

lighted

Localizer

limited

March

medium

military

minute

Monday

lights

Jet Aircraft Starting Unit

Joint Reserve Base

Local Airport Advisory

Land and Hold Short Operations

Compass locator at Middle Marker ILS

Compass locator at Outer Marker ILS

Marine Corps Auxiliary Landing Field

Military Area Control Center

Marine Corps Air Facility

Marine Corps Air Station

Pilot-to-Metro voice call

Middle Marker of ILS

Maintenance Period

mean sea level

Naval Air Depot

Naval Air Facility

Naval Air Station

Naval Outlying Field

night

November

Microwave Landing System

minimum safe altitude warning

Naval Air Development Center

Naval Air Engineering Center

Naval Air Engineering Station

Naval Auxiliary Landing Field

Navy Air Logistics Office

Naval Air Warfare Center Naval Air Weapons Station

Naval Air Logistics Control Office

Naval Auxiliary Air Station

Marine Corps Base

Joint Oil Analysis Program

Joint Operational Support Airlift Center

International Civil Aviation Organization NSTD nonstandard

IFR Instrument Flight Rules ntc notice

observation II S Instrument Landing System ohen

Inner Marker Oct October

IM

Immigration OL F Outlying Field

IMG

increase

opr

incr

indefinite ago

indef

operations

ints intensity OTS

out of service ovrn

invof in the vicinity of

IMC Instrument Meteorological Conditions PAEW personnel and equipment working

overrun

operate, operator, operational

pat

p-line

PMSV

POI

PPR

PRM

PTD

rea

RAMCC

rgt tfc

RON

rar

retd

rwv

Sat

SELE

Sen

SFΔ

cfc

SFRA

SOAP

SOF

SPR

SR

std

Sun

SVC

tfc

thld

Thu

tkf

tmprv

tran

Tue

twr

twv

UC

USA

USAF

USCG

USN

VFR

VIP

VMC

Wed

wx

EC. 23 SEP 2010 to 18 NOV 2010

RSRS

pattern

request

require

runwav

Saturday

surface

sunrise

sunset

Sunday

service

threshold

Thursday

take-off temporary

transient

Tuesday

tower

taxiwav

Under Construction

United States Army

United States Navy

formerly AUTOVON)

Visual Flight Rules

Wednesday

weather

Very Important Person

United States Air Force

United States Coast Guard

Defense Switching Network (telephone,

Visual Meteorological Conditions

traffic

standard

Sentember

restricted

right traffic

power line

Pilot-to-Metro Service

Pilot to Dispatcher

Remain Overnight

Petrol, Oils and Lubricants

Precision Runway Monitoring

Regional Air Movement Control Center

reduced same runway separation

Single Frequency Approach

Special Flight Rules Area

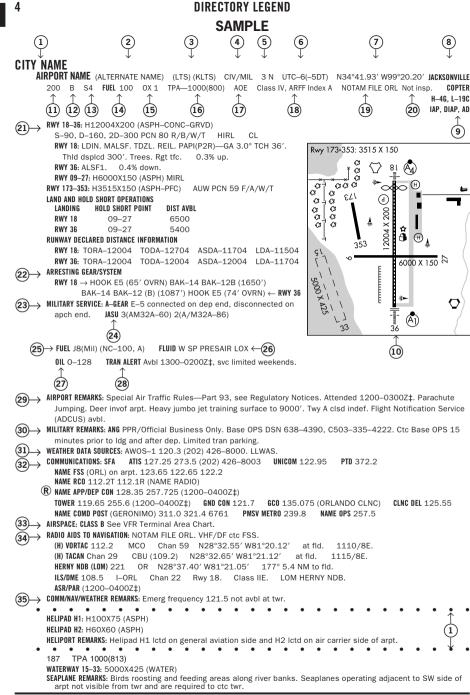
Supervisor of Flying

Seaplane Base

Strategic Expeditionary Landing Field

Spectrometric Oil Analysis Program

prior permission required



All bearings and radials are magnetic unless otherwise specified.
All mileages are nautical unless otherwise noted.
All times are Coordinated Universal Time (UTC) except as noted.
All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.
The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

(10)	H LEGEND
RUNWAYS/LANDING AREAS	RADIO AIDS TO NAVIGATION
	RADIO AIDS TO NAVIGATION
Hard Surfaced	VORTAC ♥ VOR
Metal Surface	VOR/DME NDB
Sod, Gravel, etc	TACAN NDB/DME
Light Plane, Ski Landing Area or Water Under Construction	MISCELLANEOUS AERONAUTICAL FEATURES
Closed	Airport Beacon
Helicopter Landings Area	Landing Tee
Displaced Threshold 0	Tetrahedron
Taxiway, Apron and Stopways	
MISSELLANIEGUS BASE AND CHITUBAL	APPROACH LIGHTING SYSTEMS
MISCELLANEOUS BASE AND CULTURAL FEATURES	A dot " • " portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system of a Negative symplecty.
Buildings	system e.g. (Ā) Negative symbology, e.g., (Ā) w indicates Pilot Controlled Lighting (PCL).
Power Lines	Runway Centerline Lighting
Fence	Approach Lighting System ALSF-2
Towers	Approach Lighting System ALSF-1
	Short Approach Lighting System SALS/SALSF
Tanks	Simplified Short Approach Lighting System (SSALR) with RAIL
Oil Well	Medium Intensity Approach Lighting System (MALS and MALSF)/(SSALS and SSALF)
Smoke Stack	Medium Intensity Approach Lighting System (MALSR) and RAIL
Obstruction	Omnidirectional Approach Lighting System (ODALS)
Controlling Obstruction	Navy Parallel Row and Cross Bar
ဇာ တွင် တွေ Trees တိတ္ တိတ္	Air Force Overrun
Populated Places	Standard Threshold Clearance provided Pulsating Visual Approach Slope Indicator
Cuts and Fills Fill	Visual Approach Slope Indicator with a threshold crossing height to accomodate
Cliffs and Depressions	long bodied or jumbo aircraft Tri-color Visual Approach Slope Indicator
Ditch	(TRCV) (5) Approach Path Alignment Panel (APAP)
Hill	P Precision Approach Path Indicator (PAPI)

pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous

outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no

MC

NAF

NAS

PVT

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saying time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

NASA

N

Marine Corps

Naval Air Facility

Naval Air Station

National Air and Space Administration

Use by Transient Military Aircraft

US Civil Airport Wherein Permit Covers

Private Use Only (Closed to the Public)

Navv

as under the airport with which they are associated.

Alternate names, if any, will be shown in parentheses.

sample on the preceding pages. (1) CITY/AIRPORT NAME

(3) LOCATION IDENTIFIER

military tenant.

Α AFRC

ΑF

ANG

ARNG

CIV/MIL

(5) AIRPORT LOCATION

points, e.g., 4 NE. (6) TIME CONVERSION

AR

CG

DND

differentiate them from the letter "O". (4) OPERATING AGENCY

US Army

US Air Force

Air National Guard

US Army National Guard

Joint Use Civil/Military

Department of National Defense Canada

US Army Reserve

US Coast Guard

Air Force Reserve Command

United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Navaids, flight service stations and remote communication

private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected

LEGEND

GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Manual 5-4-5 Instrument Approach Procedure Charts for additional information, AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the

CODE

J4 (JP4)

J5 (JP5)

J8 (JP8)

18+100

MOGAS

Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS",

Data shown on fuel availability represents the most recent information the publisher has been able to acquire.

OX 3 High Pressure—Replacement Bottles

B+

S5: Major airframe repairs.

S7: Major powerplant repairs.

S8: Minor powerplant repairs.

FUFL

minus 50° C.

S6: Minor airframe and major powerplant repairs.

FS-11, FP** minus 46°C.

with FS-II*, FP** minus 47°C.

stability characteristics of JP-8.

(Jet Fuel Type Unknown)

as aircraft fuel.

Jet B, Wide-cut, turbine fuel with FS-II*, FP**

(JP-4 military specification) FP** minus

with FS-II*, FP** minus 47°C, with-fuel

additive package that improves thermo

Automobile gasoline which is to be used

(JP-5 military specification) Kerosene with

(JP-8 military specification) Jet A-1, Kerosene

(JP-8 military specification) Jet A-1, Kerosene

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric

center of all usable runway surfaces.

and airport name. (10) AIRPORT SKETCH

(11) ELEVATION

(13)

80

100

115

Α

A+

A1 +

10011

(14) FUEL CODE

(8) CHARTS Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is

sketches will be added incrementally.

(12) ROTATING LIGHT BEACON

SERVICING—CIVIL S1: Minor airframe repairs.

FUFI

40°C.

47° C.

*(Fuel System Icing Inhibitor) **(Freeze Point) NOTE:

minus 47°C.

FP** minus 50° C.

AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

S2: Minor airframe and minor powerplant repairs.

S3: Major airframe and minor powerplant repairs.

S4: Major airframe and major powerplant repairs.

Grade 80 gasoline (Red)

specification) (Purple)

Grade 100 gasoline (Green)

100LL gasoline (low lead) (Blue)

Grade 115 gasoline (115/145 military

Jet A, Kerosene, without FS-II*, FP** minus

Jet A, Kerosene, with FS-II*, FP** minus

Jet A-1, Kerosene, without FS-II*, FP**

Jet A-1, Kerosene with FS-II*, FP** minus

Jet B, Wide-cut, turbine fuel without FS-II*,

however, the grade/type and other octane rating will not be published.

Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information

indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP

(9) INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS

located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

(15) OXYGEN—CIVIL OX 1 High Pressure

OX 2 Low Pressure OX 4 Low Pressure—Replacement Bottles

(16) TRAFFIC PATTERN ALTITUDE

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA-See Remarks" and detailed information shall be shown in the

Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

US Customs Air and Sea Ports, Inspectors and Agents

Southeast Sector (Atlantic States-DC, WV, VA to FL)

Southwest East Sector (OK and eastern TX)

Pacific Sector (WA, OR, CA, HI and AK)

Required

Νo.

Vehicles

1

1 or 2

2 or 3

3

3

contact airport manager prior to flight.

(19) NOTAM SERVICE

Airport

Index

C

D

Ε

will always carry an Index A.

Southwest West Sector (Western TX, NM and AZ)

(18) CERTIFICATED AIRPORT (14 CFR PART 139)

Type of Air Carrier Operation

Aircraft Length

≥126'. <159'

≥126', <159'

≥159', <200'

≥159'. <200'

_____ >200'

≥200′

<126'

<90'

≥90′.

Scheduled Air Carrier Aircraft with 31 or more passenger seats Unscheduled Air Carrier Aircraft with 31 or more passengers seats

Scheduled Air Carrier Aircraft with 10 to 30 passenger seats

8

(17) AIRPORT OF ENTRY, LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS U.S. CUSTOMS USER FEE AIRPORT-Private Aircraft operators are frequently required to pay the costs associated with

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one

hour advance notice of arrival is required.

customs processing.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV

> 14 CFR PART 139 CERTIFICATED AIRPORTS AIRPORT CLASSIFICATIONS

14 CFR-PART 139 CERTIFICATED AIRPORTS INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Scheduled

Departures

≥1

≥5

<5

≥5

<5

<5

≥5

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.-indicates ARFF coverage may or may not be available, for information

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and

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> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H₂0-Water; DC-Dry Chemical.

Class I

Χ

Agent + Water for Foam 500#DC or HALON 1211

or 450#DC + 100 gal H2O

Index A + 1500 gal H₂O

Index A + 3000 gal H₂O

Index A + 4000 gal H₂O

Index A + 6000 gal H₂O

for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.) 407-975-1740

407-975-1840

407-975-1820

407-975-1800

Class II

Χ

Class III

Χ

Class IV

Х

Northeast Sector (New England and Atlantic States-ME to MD) 407-975-1780 407-975-1760 Central Sector (Interior of the US, including Gulf states—MS, AL, LA)

Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible

Mexico, Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to

ATC Procedures for detailed description of NOTAM's, Current NOTAMs are available from Flight Service Stations at 1-800-WX-BRIEF. Real time Military NOTAMs are available using the DoD Internet NOTAM Distribution System (DINS)

www.notams.ics.mil. (20) FAA INSPECTION

strips are shown by magnetic bearing.

(AFSC)—Aggregate friction seal coat

(ASPH)—Asphalt

(DIRT)-Dirt

(CONC)—Concrete

(GRVD)-Grooved

T=Triple and Q=Quadruple:

CURRENT

S

D

Т

ST

TRT

DT

TT

SBTT

None

DDT

TTT

TT

TDT

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

(21) RUNWAY DATA Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the

longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown. e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

RUNWAY DESIGNATION

runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel

RIINWAY DIMENSIONS Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but

excluding those areas designed as overruns.

RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part

asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is

indicated in parentheses after runway length as follows:

(GRVL)-Gravel, or cinders

(MATS)—Pierced steel planking.

landing mats, membranes

(PEM)—Part concrete, part asphalt

Single wheel type landing gear (DC3), (C47), (F15), etc.

Two single wheels in tandem type landing gear (C130).

Two dual wheels in tandem type landing gear (B757,

Two dual wheels in tandem/dual wheel body gear type

Two dual wheels in tandem/two dual wheels in double tandem body gear type landing gear (B747, E4).

Complex dual wheel and quadruple wheel combination

Two dual wheels in tandem/two dual wheels in tandem body

Three dual wheels in tandem type landing gear (B777), etc.

Dual wheel gear two struts per side main gear type landing

Two triple wheels in tandem type landing gear (C17), etc.

Two dual wheels in tandem type landing gear (B707), etc.

Dual wheel type landing gear (P3, C9).

gear type landing gear (A340-600).

Dual wheel type landing gear (BE1900), (B737), (A319), etc.

(TURF)—Turf (TRTD)-Treated (WC)-Wire combed

(PSP)-Pierced steel plank

(RFSC)-Rubberized friction seal coat

RUNWAY WEIGHT BEARING CAPACITY

NEW DESCRIPTION

landing gear (KC10).

gear (B52).

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landing gear (C5).

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at

(PFC)-Porous friction courses

an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport

pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible

management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual,

operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport

NEW

S

D

2.5

2T

2D

2D

2D/D1

2D/2D1

2D/2D2

3D

D2

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

PSI-Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be

RUNWAY LIGHTING Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not

spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the

(4) The maximum tire pressure authorized for the pavement:

U — By experience of aircraft using the pavement

W - High, no limit

X — Medium, limited to 217 psi

Z - Very low, limited to 73 psi

SALS—Short Approach Lighting System.

Flashing Lights.

SALSF—Short Approach Lighting System with Sequenced

SSALS—Simplified Short Approach Lighting System.

Runway Alignment Indicator Lights.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with

Y - Low, limited to 145 psi

(5) Pavement evaluation method:

T — Technical evaluation

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual,

(1) The PCN NUMBER—The reported PCN indicates that an

aircraft with an ACN equal or less than the reported PCN

shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

can operate on the pavement subject to any limitation on the tire pressure.

(2) The type of pavement: R - Rigid F - Flexible

(3) The pavement subgrade category:

A - High

B — Medium

C - Low

D — Ultra-low

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published

PCN or aircraft tire pressure exceeds the published limits.

included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or

runway or runway end they serve. NSTD-Light system fails to meet FAA standards.

LIRL-Low Intensity Runway Lights. MIRL-Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights. RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL-Centerline Lights.

TDZL-Touchdown Zone Lights.

ODALS-Omni Directional Approach Lighting System.

AF OVRN-Air Force Overrun 1000' Standard

Approach Lighting System.

which they are tenants.

LDIN-Lead-In Lighting System. MALS-Medium Intensity Approach Lighting System.

MALSF-Medium Intensity Approach Lighting System with

Sequenced Flashing Lights.

MALSR-Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned

more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport

ALSAF—High Intensity Approach Lighting System with

ALSF1—High Intensity Approach Lighting System with Se-

ALSF2-High Intensity Approach Lighting System with Se-

quenced Flashing Lights, Category I, Configuration. quenced Flashing Lights, Category II, Configuration.

Sequenced Flashing Lights.

SF—Sequenced Flashing Lights.

OLS—Optical Landing System. WAVE-OFF.

entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on

4-identical light units placed on left side of

4-identical light units placed on right side of

PVASI on right side of runway

TRCV on right side of runway

2-box SAVASI on right side of runway

DIRECTORY LEGEND

P4R

PSIR

S2R

TRIR

runwav

APAP—A system of panels, which may or may not be lighted, used for alignment of approach path.

PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors.

APAP on left side of runway PNIR

P2L 2-identical light units placed on left side of

SAVASI—Simplified Abbreviated Visual Approach Slope Indicator

2-box SAVASI on left side of runway

PVASI on left side of runway

TRCV on left side of runway

P2R

S2L

TRII

Key Mike 7 times within 5 seconds

and takeoff for specified runway end.

PAPI—Precision Approach Path Indicator

2-identical light units placed on right side of

P4I

APAP on right side of runway

PNIL

VASI-Visual Approach Slope Indicator

V6I 6-box VASI on left side of runway V2L 2-box VASI on left side of runway

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

V2R 2-box VASI on right side of runway V6R 6-box VASI on right side of runway

V4L 4-box VASI on left side of runway V12 12-box VASI on both sides of runway

V4R 4-box VASI on right side of runway V16 16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

PILOT CONTROL OF AIRPORT LIGHTING

Highest intensity available

Medium or lower intensity

5 times within 5 seconds (Lower REIL or REIL-Off)

3 times within 5 seconds Lowest intensity available

(Lower REIL or REIL-Off)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07-25, MALSR Rwy 07, and

VASI Rwy 07-122.8. Where the airport is not served by an instrument approach procedure and/or has an independent type system of different

specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport

RUNWAY SLOPE

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach

procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up

or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down. RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"-Right traffic indicates right turns should be made on landing LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet. Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The

Aeronautical Information Manual contains specific details on hold-short operations and markings.

RUNWAY DECLARED DISTANCE INFORMATION TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane

take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided.

LDA-Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

(22) ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a-gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A-Gear which has a bi-direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance

notice may be required for rigging A-Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific

engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations. Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

DESCRIPTION BAK-9 Rotary friction brake. Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary BAK-12A BAK-12B Extended BAK-12 with 1200 foot run, 11/4 inch Cable and 50,000 pounds weight setting. Rotary

friction brake. E28 Rotary Hydraulic (Water Brake).

The following device is used in conjunction with some aircraft arresting systems: A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

DIRECTORY LEGEND

for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to five seconds to fully raise the cable.)

A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to one and one-half seconds to fully raise the cable.)

Rotary Hydraulic (Water Brake) Mobile.

UNI-DIRECTIONAL CABLE

TYPE DESCRIPTION

MB60 Textile brake—an emergency one-time use, modular braking system employing the tearing of

specially woven textile straps to absorb the kinetic energy.

E5/E5-1/E5-3 Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100

HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and

length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a

stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet

overrun that is not capable of withstanding the aircraft weight. These ratings are published under

Military Service.

FOREIGN CABLE

TYPE DESCRIPTION US EQUIVALENT Rotary Hydraulic)

44B-3H (Water Brake)

CHAG Chain

F-5 UNI-DIRECTIONAL BARRIER

threshold can cause damage to the barrier and substantial damage to the aircraft.

TYPE Web barrier between stanchions attached to a chain energy absorber. MA-1A

Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction,

AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire DC: 28v, 1500 amp, 72 kw (with TR pack)

DC: 28v, 500 amp, 14 kw

DC: 28v, 500 amp, 15 kw

DC: 28v, 1500 amp, 45 kw, split bus

DC: 28v, 1500 amp, 45 kw, split bus

AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire

AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway

high energy absorbing materials which will crush under the weight of an aircraft.

Engineered Material Arresting System, located beyond the departure end of the runway, consisting of

BAK-15

chain). Designed for wing engagement. NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier

DESCRIPTION

OTHER TYPE EMAS

12

M21

BAK-14

BI-DIRECTIONAL CABLE (B)

(23) MILITARY SERVICE

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

24) JET AIRCRAFT STARTING UNITS (JASU) The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten

or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35-1-7.) **ELECTRICAL STARTING UNITS:** A/M32A-86 MC-1A MD-3 MD-3A MD-3M

13 DIRECTORY LEGEND MD-4 AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5 kva. 0.8 pf. 520 amp. 2 wire AIR STARTING UNITS AM32-95 150 + -5 lb/min (2055 + -68 cfm) at 51 + -2 psia AM32A-95 150 + -5 lb/min @ 49 + -2 psia (35 + -2 psig) LASS 150 +/- 5 lb/min @ 49 +/- 2 psia 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press MA-1A MC-1 15 cfm, 3500 psia MC-1A 15 cfm, 3500 psia MC-2A 15 cfm, 200 psia MC-11 8,000 cu in cap, 4000 psig, 15 cfm COMBINED AIR AND ELECTRICAL STARTING UNITS: AC: 115/200v, 400 cycle, 3 phase, 30 kw gen DC: 28v, 700 amp AIR: 60 lb/min @ 40 psig @ sea level AM32A-60* AIR: 120 + - 4 lb/min (1644 + - 55 cfm) at 49 + - 2 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva DC: 28v, 500 amp, 15 kw AM32A-60A AIR: 150 + -5 lb/min (2055 + -68 cfm at 51 + - psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw AM32A-60B* AIR: 130 lb/min, 50 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire

DC: 28v. 200 amp. 5.6 kw

SYSTEM

NCPP-105/RCPT

JASU (ARMY) 59B2-1B

OTHER JASU

CF12

CF13 CF14

CF15

CF16

CFA1

C - 26

E3

A4

MA-1

MA-2CARTRIDGE: MXU-4A

C-26-B, C-26-C

COMBINED AIR AND ELECTRICAL STARTING UNITS:

COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

ELECTRICAL STARTING UNITS (DND):

ELECTRICAL STARTING UNITS (OTHER)

AIR STARTING UNITS (DND):

AIR STARTING UNITS (OTHER):

30 kva.

28v, 7.5 kw, 280 amp.

ASA 45.5 psig, 116.4 lb/min

AIR 112.5 lb/min, 47 psig

150 Air HP, 115 lb/min 50 psia

250 Air HP, 150 lb/min 75 psia

DC 28v/10kw

USAF

AC 115/200v, 140 kva, 400 Hz, 3 phase AC 115/200v, 60 kva, 400 Hz, 3 phase

electrical power available. USN JASU **ELECTRICAL STARTING UNITS:** DC: 500 amp constant, 750 amp intermittent, 28v; AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.

*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of DC: 750 amp constant, 1000 amp intermittent, 28v;

AC: 90 kva, 115/200v, 3 phase, 400 Hz.

NC-8A/A1 NC-10A/A1/B/C AIR STARTING UNITS:

GTC-85/GTE-85 120 lbs/min @ 45 psi. MSU-200NAV/A/U47A-5 204 lbs/min @ 56 psia. WELLS AIR START 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.

AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp

DC 22-35v, 500 amp continuous 1100 amp intermittent DC 22-35v, 500 amp continuous 1100 amp intermittent soft start

AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp

28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire

40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)

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28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire

180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC,

Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is

Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at www.desc.dla.mil/Static/ProductsAndServices.asp; click on the Commercial Airports

(25) FUEL—MILITARY Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is

followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown.

available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD

De-Ice Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243). UXACEN. LPOX Low pressure oxygen servicing.

(26) SUPPORTING FLUIDS AND SYSTEMS—MILITARY

See legend item 14 for fuel code and description.

CODE ADI Anti-Detonation Injection Fluid-Reciprocating Engine Aircraft.

W WΔI

Water Thrust Augmentation-Jet Aircraft. Water-Alcohol Injection Type, Thrust Augmentation-Jet Aircraft.

SP Single Point Refueling.

Air Compressors rated 3,000 PSI or more. PRESAIR

Liquid oxygen servicing. LOX **OXRB** Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be replenished only by replacement of cylinders.) ΩX

High pressure oxygen servicing.

Indicates oxygen servicing when type of servicing is unknown.

Low and high pressure oxygen servicing.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available:

LHOXRB Low and high pressure oxygen servicing and replacement bottles:

Low pressure oxygen replacement bottles only, etc. **LPOXRB**

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with

medical oxygen.

LPNIT - Low pressure nitrogen servicing. HPNIT — High pressure nitrogen servicing.

LHNIT - Low and high pressure nitrogen servicing.

(27) OIL—MILITARY



HPOX

LHOX

NITROGEN:

0 - 155

CODE GRADE, TYPE

0 - 113

1065, Reciprocating Engine Oil (MIL-L-6082)

- 1100, Reciprocating Engine Oil (MIL-L-6082) 0-117
- 0-117+ 1100, 0-117 plus cyclohexanone (MIL-L-6082)
- 0 1231065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)

 - 1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)
- 0 128
- 1005, Jet Engine Oil (MIL-L-6081) 0 - 132
- 0 1331010, Jet Engine Oil (MIL-L-6081)
- 0 147None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic
- 0 148None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil 0 - 149None, Aircraft Turbine Engine Synthetic, 7.5c St

None, MIL-L-6086C, Aircraft, Medium Grade

- 0 156None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines JOAP/SOAP Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request.
 - (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service supported program.)
- (28) TRANSIENT ALERT (TRAN ALERT)—MILITARY
- Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking
- assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends
- regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military
 - EC. 23 SEP 2010 to 18 NOV 2010

alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been

watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient

(29) AIRPORT REMARKS

services (e.g., repairs, fuel, transportation).

publication for additional Information.

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean

accomplished.

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft, Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication. Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for

planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

(30) MILITARY REMARKS Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military

applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent

Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be

remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military. Type of restrictions: CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure

applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area. OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircrews and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received

from the airfield manager. AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from

the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of

PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11-204, AR 95-27, OPNAVINST 3710.7. Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on aboard are designated Code 6 or higher as explained in AFJMAN

11-213, AR 95-11, OPNAVINST 3722-8J. Official Business Only or PPR do not preclude the use of the airport as an

(31) WEATHER DATA SOURCES

alternate for IFR flights.

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS—Automated Weather Observing System AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2—reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data. See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

LAWRS-Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision,

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS-identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current

is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order

The FSS telephone nationwide is toll free 1-800-WX-BRIEF (1-800-992-7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available. FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation.

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by

Remote Communications Outlet (RCO)-An unmanned air/ground communications facility that is remotely controlled and

Civil Communications Frequencies-Civil communications frequencies used in the FSS air/ground system are operated on

HIWAS-See RADIO AIDS TO NAVIGATION

temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone. TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP-indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall

(32) COMMUNICATIONS Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign

be shown as CTAF/UNICOM 122.8.

calling the telephone numbers listed.

weather information.

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be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.

with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows: Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS)

and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will

(See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.

c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed. d. 122.1 is the primary receive-only frequency at VOR's.

b. 122.2 is assigned as a common enroute frequency.

e. Some FSS's are assigned 50 kHz frequencies in the 122-126 MHz band (eg. 122.45). Pilots using the FSS A/G

system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remoted

facility through which they wish to communicate. Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR

122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

provides UHF or VHF communications capability to extend the service range of an FSS.

facilities. Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

TERMINAL SERVICES SFA—Single Frequency Approach.

CTAF-A program designed to get all vehicles and aircraft at airports without an operating control tower on a common

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

landline & data link communications and voice message within range of existing transmitters.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information. PTD-Pilot to Dispatcher.

APP CON—Approach Control. The symbol (\mathbf{R}) indicates radar approach control.

TOWER-Control tower. GCA-Ground Control Approach System.

GND CON-Ground Control.

GCO-Ground Communication Outlet-An unstaffed, remotely controlled, ground/ground communications facility. Pilots at

VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a

DEP CON—Departure Control. The symbol (R) indicates radar departure control. CLNC DEL-Clearance Delivery.

PRE TAXLCI NC-Pre taxi clearance

VFR ADVSY SVC-VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV-Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or hours of operation as "Wx obsn svc 1900-0000Z‡" or "other times" may be used when no specific time is given. PMSV

facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as

"Limited Service".

CON

OPS—Operations followed by the operator call sign in parenthesis. RANGE

FLT FLW-Flight Following MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

(33) AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times.

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown. CLASS B-Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface

area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C

and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled

airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS E:

AIRSPACE: CLASS D svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace

beginning at either 700' or 1200' AGL. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS G, with CLASS E 700' (or 1200') AGL & abv:

AIRSPACE: CLASS D svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

AIRSPACE: CLASS E svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach

procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and

are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or

Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When

a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE. DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.

Class E 700' AGL (shown as magenta vignette on sectional charts) and 1200' AGL (blue vignette) areas are designated

when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless

otherwise specified, these 700'/1200' AGL Class E airspace areas remain in effect continuously, regardless of airport

operating hours or surface area status. These transition areas should not be confused with surface areas or arrival

extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)

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(34) RADIO AIDS TO NAVIGATION

The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical

Navigation Services Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are

listed and the NOTAM file identifier is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (AWOS), and Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDs.

NAVAID information is tabulated as indicated in the following sample:

Geographical Position

Site Elevation

ABE Chan 122(Y) N40°43.60′ W75°27.30′ 180°4.1 NM to fld. 1110/8E. AWOS. HIWAS.

SSV Class

Class Frequency Identifier

Terminal Procedures. Only part-time hours of operation will be shown.

TACAN/DME Channel

airport

VORTAC and VOR/DME).

facility to center of

Bearing and distance VOR unusable 020°-060° byd 26 NM blo 3,500′

Magnetic Variation

Automated Hazardous Inflight Weather Observing System

Weather Advisory Service

Restriction within the normal altitude/range of the navigational aid (See primary alphabetical listing for restrictions on

Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the "Y" mode to receive distance

Distance

information HIWAS—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including summarized SIGMETs, convective SIGMETs, AIRMETs and urgent PIREPs. HIWAS is presently broadcast over selected VOR's

ASR/PAR—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S. RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications Altitudes

		(NM)
(T) Terminal	1000' to 12,000'	25
(L) Low Altitude	1000' to 18,000'	40
(H) High Altitude	1000' to 14,500'	40
	14,500' to 18,000'	100
	18,000' to 45,000'	130
	45,000' to 60,000'	100
NOTE: Additionally, (H	I) facilities provide (L) and (T) service volume and (L) facilities	es provide (T) service. Altitude

des are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility. CONTINUED ON NEXT PAGE

19

CONTINUED FROM PRECEDING PAGE

The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations

vary between radinates	at different fooddorfo.
AB	Automatic Weather Broadcast.
DF	
DME	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y)	
GS	Glide slope.
Н	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM a all altitudes).
HH	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes)
H-SAB	Non-directional radio beacons providing automatic transcribed weather service.
ILS	Instrument Landing System (voice, where available, on localizer channel).
IM	Inner marker.
ISMLS	Interim Standard Microwave Landing System.
LDA	Localizer Directional Aid.
LMM	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS	Microwave Landing System.
MM	Middle marker.
OM	Outer marker.
S	Simultaneous range homing signal and/or voice.
SABH	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF	Simplified Direction Facility.
TACAN	UHF navigational facility-omnidirectional course and distance information.
VOR	VHF navigational facility-omnidirectional course only.
VOR/DME	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC	Collocated VOR and TACAN navigational facilities.
W	
_	

VHF station location marker at a LF radio facility.

NI S

CHANNEL

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538

540

542

544

554

556

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562

564

566

2X

21

11X

17X

17Y

18X

189

19

VHE

FREQUENCY

108.10

108.30

108.50

108.70

108.90

109.10

109.30

109.50

109.70

109.90

110.10

110.30

110 50

110.70

110.90

111.10

111.30

111.50

111.70

111.90

108.05

108.15

108.75

108.85

108 95

109.05

109 15

109 25

109.35

134.5

134 55

135.4

108.00

108.05

108 10

108 15

CHANNEL

18X

20X

22X

24X

26X

28X

30X

32X

34X

36X

38X

4∩x

42X

44X

46X

48X

50X

52X

54X

56X

17Y

18Y

24Y

25Y

26Y

27Y

28Y

291

30Y

540

500

542

ILS FACILITY PEFORMANCE CLASSIFICATION CODES

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A - 4 NM prior to runway threshold, B - 3500 ft prior to runway threshold, C - glide angle dependent but generally 750-1000 ft prior to threshold, T - runway threshold, D - 3000 ft after runway threshold, and E - 2000 ft prior to stop end of runway.

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category

and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

ILS information is tabulated as indicated in the following sample: II S/DMF I-ORL Rwy 18. Class IIE. 108 5 Chan 22 LOM HERNY NDR

CHANNEL

568

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ILS Facility Performance

Classification Code FREQUENCY PAIRING PLAN AND MLS CHANNELING

TACAN NI S VHE TACAN FREQUENCY

109 45

109.55

109.65

109.75

109.85

109.95

110.05

110.15

110.25

110.35

110.45

110.55

110.65

110.75

110.85

110.95

111.05

111.15

111.25

111.35

111.45

111.55

113.45

113 55

113 65

113.75

113.85

113 95

114.05

2 IM

CHANNEL

636

638

640

642

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658

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664

666

668

670

672

674

676

678

690

692

694

696

698

25X

25Y

26X

261

27X

27Y

28X

28Y

29X

29Y

30X

CHANNEL

31 V

32Y

33Y

34Y

35Y

36Y

37Y

38Y

39Y

40Y

41Y

42Y

43Y

44Y

45Y

46Y

47Y

48Y

49Y

50Y

51Y

52Y

81Y

82Y

83Y

84Y

85Y

86Y

87Y

544

502

546

550

552

506

VHF

FREQUENCY

114 15

114.25

114.35

114.45

114.55

114.65

114.75

114.85

114.95

115.05

115.15

115.25

115 35

115.45

115.55

115.65

115.75

115.85

115.95

116.05

116.15

116.25

116.35

116.45

116.55

116 65

116 75

116.85

116.95

117 05

117.15

117.25

VHF

FREQUENCY

108.80

108.85

108.90

108 95

109 00

109.05

109.10

109.15

109.20

109 25

109.30

TACAN

CHANNEL

88Y

89Y

90Y

91Y

92Y

93Y

94Y

95Y

96Y

97Y

98Y

aay

1009

101Y

102Y

103Y

104Y

105Y

106Y

107Y

108Y

109Y

110Y

111Y

112Y

113Y

114Y

115Y

116Y

117Y

118Y

119Y

2 IM

CHANNEL

556

508

558

560

510

562

564

512

544	108.25	19Y	612	111.65	53Y	680	
546	108.35	20Y	614	111.75	54Y	682	
548	108.45	21Y	616	111.85	55Y	684	
550	108.55	22Y	618	111.95	56Y	686	
552	108.65	23Y	620	113.35	80Y	688	

622

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626

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634

FREQUENCY PAIRING PLAN AND MLS CHANNELING

108.25

108 30

108.35

108.55

108 60

108 65

108 70

TACAN VHF 2 IM TACAN VHF MLS TACAN CHANNEL FREGUENCY CHANNEL CHANNEL FREGUENCY CHANNEL CHANNEL 19Y

20X

20Y

22Y

23X

23Y

24X

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

11Y 135 45 21 X 108 40 12X 135.5 21Y 108.45 548 12Y 135.55 22X 108.50 504

	100.10	0.2		100110	000
9X	108.20	-	24Y	108.75	554

FREQUENCY

133.60

133.65

133 70

133.75

133.80

133.85

133.90

133.95

134 00

134 05

134 10

134.15

134.20

134.25

112.30

112.35

112 40

112 45

112 50

112 55

112.60

112.65

112.70

112.75

112.80

112.85

112.90

112.95

113.00

113.05

113 10

113.15

113.20

113.25

113.30

113.35

113.40

620

644

-

646

648

TACAN

CHANNEL

63X

63Y

64X

64Y

65X

65Y

66X

66Y

67X

67Y

68X

68Y

69X

69Y

70X

70Y

71 X

71Y

72X

72Y

73X

73Y

74X

74Y

75X

75Y

76X

76Y

77X

77Y

78X

78Y

79X

79Y

80X

80Y

81X

TACAN

CHANNEL

30Y

31X

31Y

32X

32Y

33X

34X

34Y

35X

35Y

36X

36Y

37X

37Y

38X

38Y

39X

397

40X

40Y

41X

41Y

42X

42Y

43X

43Y

44X

44Y

45X

45Y

46X

46Y

47X

47Y

48X

48Y

59Y

60X

60Y

61 X 61Y

62X

VHF

FREQUENCY

109.35

109.40

109 45

109.50

109.55

109.60

109.65

109.70

109 75

109.80

109.85

109.90

109.95

110.00

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110.65

110.70

110.75

110.80

110.85

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110.95

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111.15

112 25

133 30

133 35

133 40

133 45

133.50

MIS

CHANNEL

566

568

514

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576

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578

580

520

582

584

522

586

588

524

590

592

526

594

596

528

598

600

530

602

CHANNEL

95Y

96X

96Y

97X

97Y

98X

98Y

99X

99Y

100X

100Y

101X

101Y

102X

102Y

103X

103Y

104X

104Y

105X

105Y

106X

106Y

107X

107Y

108X

108Y

109X

109Y

110X

110Y

111X

111Y

112X

112Y

113X

113Y

124Y

125X

125Y

126X

126Y

VHF

FREQUENCY

114.85

114.90

114 95

115.00

115.05

115.10

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MLS

CHANNEL

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MIS

CHANNEL

49X	111.20	-	81Y	113.45	622	114X	116.70	-
49Y	111.25	604	82X	113.50	-	114Y	116.75	688
50X	111.30	532	82Y	113.55	624	115X	116.80	-
50Y	111.35	606	83X	113.60	-	115Y	116.85	690
51X	111.40	-	83Y	113.65	626	116X	116.90	-
51Y	111.45	608	84X	113.70	-	116Y	116.95	692
52X	111.50	534	84Y	113.75	628	117X	117.00	-
52Y	111.55	610	85X	113.80	-	117Y	117.05	694
53X	111.60	-	85Y	113.85	630	118X	117.10	-
53Y	111.65	612	86X	113.90	-	118Y	117.15	696
54X	111.70	536	86Y	113.95	632	119X	117.20	-
54Y	111.75	614	87X	114.00	-	119Y	117.25	698
55X	111.80	-	87Y	114.05	634	120X	117.30	-
55Y	111.85	616	88X	114.10	-	120Y	117.35	-
56X	111.90	538	88Y	114.15	636	121X	117.40	-
56Y	111.95	618	89X	114.20	-	121Y	117.45	-
57X	112.00	-	89Y	114.25	638	122X	117.50	-
57Y	112.05	-	90X	114.30	-	122Y	117.55	-
58X	112.10	-	90Y	114.35	640	123X	117.60	-
58Y	112.15	-	91X	114.40	-	123Y	117.65	-
59X	112.20	-	91Y	114.45	642	124X	117.70	-

62Y 133.55 95X 114.80 35 COMM/NAV/WEATHER REMARKS:

114 50

114.55

114 60

114.65

114 70

114.75

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

EC. 23 SEP 2010 to 18 NOV 2010

92X

92Y

93X

93Y

94X

94Y

DETROIT

DETROIT

COPTER

ΙΔΡ

H-10G I-28I

L-28J

ARRAMS MIINI (See GRAND LEDGE)

ADRIAN N41°52.20′ W84°04.65′ NOTAM FILE ADG NDB (MHW) 278 ADG at Lenawee Co. Unmonitored.

(ADG)

RWY 05-23: H5001X100 (ASPH)

S4

N41°52.06′ W84°04.64′

ADRIAN LENAWEE CO

ALLEGAN

FUEL 100LL, JET A

NOTAM FILE ADG HIRI RWY 05: REIL, PAPI(P4L)-GA 3.0° TCH 32', P-line.

RWY 23: PAPI(P4L)-GA 3.0° TCH 32'. Trees.

3 SW UTC-5(-4DT)

S-20

RWY 11-29: 1810X150 (TURF) RWY 11: Trees. RWY 29: Trees.

AIRPORT REMARKS: Attended 1300Z±-dusk, Arpt unattended major

holidays except by prior arrangement; call arpt manager

517-265-2827, arpt manager ngts 517-442-8934. 24 hr self

serve fuel (100LL only) with credit card. Rwy 11-29 CLOSED

Dec-Apr and when snow covered. Snow removal Rwy 05-23 only. Taxi on hard surfaces only during spring thaw and wet conditions. Rwv 11-29 marked with 3' vellow cones, HIRL Rwv 05-23 preset

low ints; to increase ints and ACTIVATE PAPI Rwy 05 and Rwy 23-CTAF. Ldg fee for commercial acft waived with fuel

nurchase WEATHER DATA SOURCES: ASOS 118.375 (517) 265-9089. COMMUNICATIONS: CTAF/UNICOM 122.8 (R) TOLEDO APP/DEP CON 134.35

JACKSON (L) VORW/DME 109.6 IXN Chan 33 N42°15.55' 149° 29 NM to fld. 995/5W. W84°27.51′ N41°52.20′ W84°04.65′ ADRIAN NDB (MHW) 278 ADG

AERONUT PARK BALLOONPORT (See HOWELL)

ALBERT I LINDBERG (See HESSEL)

RADIO AIDS TO NAVIGATION: NOTAM FILE JXN.

PADGHAM FLD (35D) 1 E UTC-5(-4DT) N42°31.83′ W85°49.42′

S4 FUEL 100LL NOTAM FILE LAN

RWY 11-29: H4300X75 (ASPH) S-18 MIRL

RWY 11: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Trees.

RWY 29: REIL. PAPI(P4L)—GA 3.0°. TCH 40'. Trees. RWY 15-33: 1598X150 (TURF)

RWY 15: Trees. RWY 33: Trees. AIRPORT REMARKS: Attended 1300Z±-dusk, Parachute Jumping, Rwy 15-33 surface rough. Rwy 15-33 marked with 3' yellow cones. ACTIVATE MIRL Rwy 11-29, PAPI Rwy 11 and Rwy 29, REIL Rwy

11 and Rwy 29-CTAF. Rwy 11-29 parallel twy marked with reflectors. Rwy 29 PAPI OTS indef. COMMUNICATIONS: CTAF/UNICOM 122.8 PULLMAN RCO 122.1R 112.1T (LANSING RADIO)

(R) GRAND RAPIDS APP/DEP CON 128.4 (1030-0500Z±) (R) CHICAGO CENTER APP/DEP CON 128.5 (0500-1030Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

PULLMAN (H) VOR/DME 112.1 PMM Chan 58 N42°27.96'

W86°06.29' 073° 13.1 NM to fld. 640/0E.

ALMA N43°19.40′ W84°47.18′ NOTAM FILE AMN.

G. 3: at fld. NOTAM FILE ADG. Unmonitored.

> IAP Rwy 15-33: 1598 X 150 €3 æ 63 a €3 €3 C a a **(3** 4300 x 75 €3 Ø €3 0 Park/Sports Complex G G G

NDB (MHW) 329 AMN 096° 4.3 NM to Gratiot Community.

DETROIT L-28J

CHICAGO

L-281

ALMA

GRATIOT COMMUNITY (AMN) 3 SW UTC-5(-4DT) N43°19.33′ W84°41.28′ S4 FUEL 100LL JET A OX 3 NOTAM FILE AMN RWY 09-27: H4999X75 (ASPH) S-40, D-65, 2S-82

RWY 09: REIL. VASI(V2L)-GA 3.0° TCH 45'. RWY 27: REIL. VASI(V2L)-GA 3.0° TCH 53'. RWY 18-36: H3197X75 (ASPH) S-26

RWY 18. Trees RWY 36. Trees AIRPORT REMARKS: Attended Mon-Fri 1300-2130Z±. Powered

parachute activity on and invof arpt. Animals on and invof arpt.

ACTIVATE MIRL Rwys 09-27 and 18-36; VASI Rwys 09 and 27; REIL Rwys 09 and 27-CTAF. WEATHER DATA SOURCES: AWOS-3 124.175 (989) 463-3433

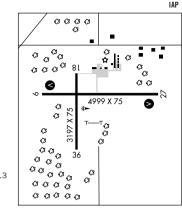
COMMUNICATIONS: CTAF/UNICOM 122.8 R SAGINAW APP/DEP CON 126.45 (1100-0400Z‡) **CLNC DEL** 119.25

CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE MBS.

SAGINAW (L) VORW/DME 112.9 MBS Chan 76 N43°31.90' W84°04 64'

248° 29.5 NM to fld. 663/3W. HIWAS. ALMA NDB (MWH) 329 AMN N43°19.40′ W84°47.18′

096° 4.3 NM to fld. NOTAM FILE AMN.



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NOTAM FILE APN

DETROIT

LAKE HURON

IAP

H-11A, L-31C

L-28J

ALMENA (See PAW PAW)

AI PFNA ALPENA CO RGNL (APN)

RWY 25-

S2 FUEL 100LL, JET A LRA Class I, ARFF Index A RWY 01-19: H9001X150 (CONC-GRVD) S-95, D-115, 2S-170, 2T-560, 2D/2D2-468

RWY 01: MALSR. PAPI(P4L)-GA 3.0° TCH 52'. Tree. RWY 19: REIL, PAPI(P4L)—GA 3.0° TCH 36', Tree.

RWY 07-25: H5028X100 (CONC-GRVD) S-93, D-111, 2S-170, 2T-553, 2D/2D2-438 MIRL

RWY 07: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Trees. RWY 25: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION RWY 01: TORA-9001 TODA-9001 ASDA-9001 LDA-9001

RWY N7-TORA-5031 TODA-5031 ASDA-5031 LDA-5031 RWY 19-TORA-9001 TODA-9001 ASDA-9001 LDA-9001

ARRESTING GEAR/SYSTEM

RWY 01 BAK 14 BAK-12A(B) (1500') BAK 14 BAK-12A(B) (1500') RWY 19

AIRPORT REMARKS: Attended 1200-0000Z‡. For svc after hrs call 989-920-7988. Birds and other wildlife on and invof arpt. Twy H,

east of Rwy 01-19 clsd to military acft. Twy B not visible from twr. Twy A west of Twy C and Twy B rstd to military only. Be alert for

TORA-5031 TODA-5031 ASDA-5031 LDA-5031

uncontrolled vehicles on the twy. Twy to maintenance hangars

unlit. 48 hrs PPR for air carrier ops with more than 30 passenger seats—call arpt manager 989-354-2907. ACTIVATE HIRL Rwy 01-19; MIRL Rwy 07-25; REIL Rwy 19, Rwy 07 and Rwy 25; and MALSR Rwy 01-CTAF.

ANG-72 hr PPR; ctc Base OPS DSN 741-3226, C989-354-6226 for PPR number. ANG duty hrs Mon-Fri 1300-2130Z‡ except holidays. WEATHER DATA SOURCES: ASOS 120.675 (989) 356-3662.

6 W UTC-5(-4DT) N45°04.69' W83°33.62'

108 8 APN COMMUNICATIONS: CTAF 121.35 UNICOM 122.95

RCO 122.1R 108.8T (LANSING RADIO)

R MINNEAPOLIS CENTER APP/DEP CON 125.475 (2100-1300Z‡)

R APP/DEP CON 128.425 (1300-2100Z‡).

TOWER 121.35 (Weekdays 1300-2100Z‡ except holidays.) GND CON 121.9

AIRSPACE: CLASS D svc Weekdays 1300-2100Z except holidays other times CLASS E. RADIO AIDS TO NAVIGATION: NOTAM FILE APN.

Chan 25 N45°04.97′ W83°33.42′ at fld. 677/7W. HIWAS. (L) VORTAC 108.8 APN

DME portion unusable 260°-280°, byd 30 NM blo 4000'.

FELPS NDB (LOM) 206 AP N44°57.65′ W83°33.61′ 007° 7 NM to fld. I-APN Rwy 01. LOM FELPS NDB. ILS unmonitored when twr closed. Class IE.

SILVER CITY AIRPARK (53M) 4 N UTC-5(-4DT) N45°07.94′ W83°26.88′ TPA-1480 (800) NOTAM FILE LAN

RWY 08-26: 2400X100 (TURF)

RWY 08: Thid dspicd 600'. Trees. RWY 26: Thid dspicd 400'. Trees. AIRPORT REMARKS: Unattended. Arpt CLOSED Nov-Mar and when snow covered except for ski equipped acft. No snow removal. 300' antenna 1/5 mile N of arpt. 30' p-lines in Rwy 08 apch not marked. 35' p-line in Rwy 26 apch marked with orange balls. Rwy 08-26 and dsplcd thids marked with 3' vellow cones. COMMUNICATIONS: CTAF 122.9

ANDREWS UNIVERSITY AIRPARK (See BERRIEN SPRINGS)

ANN ARBOR MUNI (ARB) 3 S UTC-5(-4DT) N42°13.38′ W83°44.74′

S4 FUEL 100LL, JET A 0X 1. 2. 3. 4 NOTAM FILE ARB

RWY 06-24: H3505X75 (CONC-GRVD) S-45, D-70 MIRL

RWY 06: REIL. PAPI(P4L), Trees. RWY 24: ODALS. VASI(V2L)-GA 3.0° TCH 20'. Trees.

RWY 12-30: 2750X110 (TURF) 0.6% un NW

RWY 12. Trees RWY 30: Trees.

AIRPORT REMARKS: Attended Nov-Mar 1300-0100Z‡, Apr-Oct

1300-2300Z‡. Terminal open 1200Z‡-dusk. Birds on and invof

arpt. Runup area to Rwy 24 and first 200' of parallel twy from the

runup area of Rwy 24' not visible and uncontrolled by twr. When twr clsd, confirm snow removal ops and winter conditions—CTAF.

No snow removal for Rwy 12-30. Rwy 12-30 marked with yellow cones. When twr clsd ACTIVATE ODALS Rwy 24-CTAF. WEATHER DATA SOURCES: ASOS 134.55 (734) 668-7173.

LAWRS

COMMUNICATIONS: CTAF 120.3 ATIS 134.55

(R) DETROIT APP/DEP CON 118.95

TOWER 120.3 (1300-0100Z±) GND CON 121.6 **CLNC DEL** 121.6 AIRSPACE: CLASS D svc 1300-0100Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

SALEM (L) VORTAC 114.3 SVM Chan 90 N42°24.53' W83°35.65' 214° 13 NM to fld. 950/3W.

ARCHER MEML FLD (See ST JOHNS)

ANTRIM CO

ARNOLD FLD (See CROSWELL)

ATHELONE WILLIAMS MEML (See DAVISON)

(See BELLAIRE)

ATLANTA MUNI (Y93) 1 SE

UTC-5(-4DT) N45°00.00' W84°08.00'

875

NOTAM FILE LAN FUEL 100LL

RWY 13-31: 3223X100 (TURF) LIRI

RWY 31: Thid dsplcd 569'. Trees.

RWY 13: Thid dsplcd 758'. Trees.

RWY 05-23: H3000X60 (ASPH) LIRI

RWY 05: Thid dspicd 1230'. Trees.

RWY 23: PAPI(P2L)—GA 4.0° TCH 22'. Thid dsplcd 370'. Trees.

AIRPORT REMARKS: Attended on req. For winter condition/snow removal Rwy 05-23 confirm prior to use; call

marked with 3' yellow cones. Rwy 13-31 LIRL ops Jun through Sep. OTS indefinitely.

989-785-4724; no snow removal Rwv 13-31, Rwv 13-31 CLOSED Nov-Apr and when snow covered, Birds and deer on and invof the arpt. ACTIVATE LIRL Rwy 13-31 and Rwy 05-23 and PAPI Rwy 23-CTAF. Rwy 13-31

COMMUNICATIONS: CTAF 122.9 RADIO AIDS TO NAVIGATION: NOTAM FILE APN.

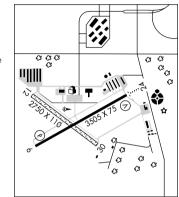
Chan 25 N45°04.97' W83°33.42' ALPENA (L) VORTAC 108.8 APN

AU SABLE N44°26.95′ W83°23.66′.

NOTAM FILE OSC.

(H) VORW/DME 116.1 ASP Chan 108 at Oscoda-Wurtsmith. 625/7W. AWOS-3. VOR portion unusable 300°-360° byd 35 NM blo 2800'. DME unusable 300°-020° byd 35 NM blo 3000'.

AUSTN N42°07.86′ W85°31.79′. NOTAM FILE AZO. NDB (LOM) 371 AZ 354° 6.3 NM to Kalamazoo Co. Unmonitored.



LAKE HURON

L-31C

LAKE HIIRON

DETROIT

COPTER

L-28J, A

IAP. AD

266° 25 NM to fld. 677/7W. HIWAS

LAKE HURON

H-11A, L-31C

CHICAGO

AVOCA (39G) 2 SE UTC-5(-4DT) N43°01.80′ W82°40.16′ 726 NOTAM FILE LAN

RWY 09-27: 2105X100 (TURF)

RWY 09: Thid dspicd 267'. Road. Rgt tfc.

RWY 27: Trees. AIRPORT REMARKS: Attended irregularly. Ultralight ops at arpt. Rwy 09-27 and Rwy 09 dsplcd thid marked with yellow cones. COMMUNICATIONS: CTAF 122.9

TACKARFRRY (07D) 2 W UTC-5(-4DT) N43°03.87′ W82°43.43′ NOTAM FILE LAN

RWY 18-36: 2244X65 (TURF)

RWY 18: Brush. RWY 36: Thid dspicd 1000'. Trees.

AIRPORT REMARKS: Attended irregularly. Rwy 36 has 75' radio twr 200' from thId 130' left. Rwy 36 dsplcd thIds marked with 3 tires each side; Rwy 18-36 marked with tires. Rwy 18-36 NSTD LIRL; non-frangible mounting;

COMMUNICATIONS: CTAF 122.9

variable spacing and NSTD lens. Lgts not for public use.

BAD AXE N43°47.02′ W82°58.99′. NOTAM FILE BAX.

(T) VORW/DME 108.2 BAX Chan 19 at Huron Co Mem. 766/5W. AWOS-3.

RCO 122.65 (LANSING RADIO)

BAD AXF

HURON CO MEM (BAX) 1 S UTC-5(-4DT) N43°46.81′ W82°59.13′

B FUEL 100LL, JET A NOTAM FILE BAX RWY 17-35: H5009X75 (ASPH) MIRL

RWY 17: REIL. PAPI(P4L), Trees.

RWY 35: REIL. PAPI(P4L). Trees.

RWY 04-22: H3495X75 (ASPH) S-16 MIRL (NSTD)

RWY 04: Thid dsplcd 300'. Railroad. RWY 22: Trees. AIRPORT REMARKS: Attended 1330-2130Z‡, Arpt unattended major holidays and Easter. Birds on and invof arpt. Rwy 04-22 has

numerous cracks. Twy A CLOSED winter months. MIRL Rwy 04-22 and MIRL Rwy 17-35 opr dusk-0230Z‡; to increase ints and after 0230Z‡ ACTIVATE—CTAF. ACTIVATE PAPI and REIL Rwy 17 and

Rwy 35-CTAF. Rwy 04-22 NSTD MIRL; Igts last 2000' not split amber/white lens. WEATHER DATA SOURCES: AWOS-3 108.2 BAX (989) 269-4137. COMMUNICATIONS: CTAF/UNICOM 122.975

BAD AXE RCO 122.65 (LANSING RADIO) R CLEVELAND CENTER APP/DEP CON 127.7

RADIO AIDS TO NAVIGATION: NOTAM FILE BAX. BAD AXE (T) VORW/DME 108.2 BAX Chan 19 N43°47.02'

W82°58.99' at fld. 766/5W. AWOS-3.

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DETROIT

DETROIT

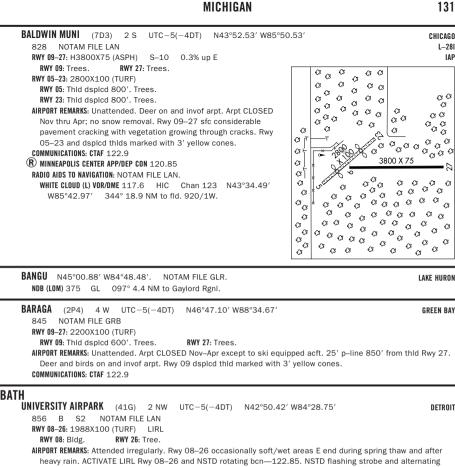
DETROIT

DETROIT

IAP

H-11A, L-28J, 31C

L-28J, 31C



BATH

white/red bcn. Rwy 08-26 marked with 3' yellow cones. COMMUNICATIONS: CTAF 122.9 BATOL N42°21.72′ W85°11.06′ NOTAM FILE BTL. CHICAGO NDB (MHW/LOM) 272 BT 226° 4.4 NM to W K Kellogg.

BATTLE CREEK N42°18.59' W85°15.14' NOTAM FILE BTL. (T) VORTACW 109.4 BTL Chan 31 at W K Kellogg, 922/2W. VOR portion unusable 095°-112° byd 16 NM; 125°-170° and 235°-260° blo 4000'. RCO 122.2 (LANSING RADIO)

L-281

L-281

CHICAGO

RATTLE CREEK

W K KELLOGG (BTL) 3 W UTC-5(-4DT) N42°18.44′ W85°15.09′

H-5E, 10F, L-28I IAP. AD

CHICAGO

B S4 FUEL 100LL JETA 0X3 LRA NOTAM FILE BTL

RWY 05-23: H10004X150 (ASPH-PFC) S-100, D-200, 2S-175,

2D-400, 2D/2D2-900 HIRL

RWY 05: REIL. VASI(V4L)—GA 3.0° TCH 49'. Tree. 0.4% down.

RWY 23: MALSR. PAPI(P4L). Pole. RWY 13-31: H4835X100 (ASPH-GRVD) S-40, D-65, 2S-82.

2D-100 MIRL

RWY 13: REIL. VASI(V4L)-GA 3.0° TCH 35'. Railroad. RWY 31: REIL, VASI(V4L)-GA 3.0° TCH 56', Road.

LAND AND HOLD SHORT OPERATIONS

IANDING HOLD SHORT POINT **DIST AVRI** RWY 05 13-31

7000 RUNWAY DECLARED DISTANCE INFORMATION

RWY 05: TORA-10003 TODA-10003 ASDA-10003 LDA-10003 ASDA-4835 LDA-4835 RWY 13: TORA-4835 TODA-4835

RWY 23: TORA-10003 TODA-10003 ASDA-10003 LDA-10003 RWY 31: TORA-4835 TODA-4835 ASDA-4835 LDA-4835

AIRPORT REMARKS: Attended continuously, 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 269-966-3470. Deer and birds on and invof arpt.

ints and ACTIVATE MALSR Rwy 23, MIRL Rwy 13-31 and REIL Rwy 05, Rwy 13 and Rwy 31-CTAF. ARFF

provided 24 hrs call 269-969-3349/3317, Index C ARFF avbl on request 48 hrs PPR call 269-966-3470, For customs call 269-965-3349. WEATHER DATA SOURCES: ASOS (269) 964-0283, LAWRS.

COMMUNICATIONS: CTAF 126.825 ATIS 128.325 UNICOM 122.95 BATTLE CREEK RCO 122.2 (LANSING RADIO)

(R) KALAMAZOO APP/DEP CON 119.2 (1100-0400Z‡) (R)CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z‡)

BATTLE CREEK TOWER 126.825 (1100-0300Z±) GND CON 121.7 AIRSPACE: CLASS D svc effective 1100-0300Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE BTL. BATTLE CREEK (T) VORTACW 109.4 BTL Chan 31 N42°18.59' W85°15.14'

at fld. 922/2W... BATOL NDB (MHW/LOM) 272 BT N42°21.72′ W85°11.06′ 226° 4.4 NM to fld.

ILS 110.5 I-BTL Rwy 23. Class IB. LOM BATOL NDB. Unmonitored when twr clsd.

ASR (1100-0400Z‡)

W81

RAY CITY

JAMES CLEMENTS MUNI (3CM) 3 S UTC-5(-4DT) N43°32.82′ W83°53.73′ FUEL 100LL LRA NOTAM FILE LAN RWY 18-36: H3798X75 (ASPH) MIRL

L-28J, 31C IAP

DETROIT

RWY 18: PAPI(P4L)-GA 4.0° TCH 27'. Trees. RWY 36: PAPI(P4L)-GA 4.0° TCH 27'. Trees. RWY 05-23: H2600X75 (ASPH) MIRL

RWY 05: Thid dspicd 226' Trees.

RWY 23: PAPI(P2L)—GA 4.0° TCH 27', Thid dsplcd 159', Road,

AIRPORT REMARKS: Attended 1300Z‡-dusk, Occasional seaplane and agriculture ops; aerobatic maneuvers and skydiving activity at

arpt. Ultralight activity on and invof arpt. Numerous sea gulls and

deer on and invof arpt. Rwy 05 and Rwy 36, occasional +100' high ships traversing apch surfaces during navigable seasons 600-800' from thids. Ship buoys in river channel. Rwy 05-23

twys marked with reflectors. ACTIVATE MIRL Rwy 18-36 and Rwy 05-23, PAPI Rwys 23, 18, and 36-CTAF, COMMUNICATIONS: CTAF/UNICOM 122.8

R SAGINAW APP/DEP CON 120.95 (1100-0400Z‡) CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE MBS.

SAGINAW (L) VORW/DME 112.9 MBS Chan 76 N43°31.90' W84°04.64' 086° 8 NM to fld. 663/3W. HIWAS.

. WATERWAY 09-27: 3500X500 (WATER)

WATERWAY 13-31: 2600X400 (WATER) SEAPLANE REMARKS: No docks or ramps. Ship buoys in river channel.

RFAVER ISLAND BEAVER ISLAND

B FUEL 100LL NOTAM FILE SJX

WATERWAY 18-36: 3500X500 (WATER)

RWY 09-27: H4300X75 (ASPH) MIRL

RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 24'. Trees.

RWY 14-32: 3300X120 (TURF) RWY 14: Thid dsplcd 533'. Trees. RWY 32: Thid dspicd 600'. Trees.

(SJX) 4 SW UTC-5(-4DT) N45°41.54′ W85°34.00′

RWY 05-23: 2130X120 (TURF) RWY 05: Trees. RWY 23: Thid dspicd 794'. Trees.

AIRPORT REMARKS: Attended 1300-2200Z‡. Rwys 05-23 and 14-32 CLOSED Nov thru Apr and when snow covered.

Deer on and invof arpt. Rwy 09-27 quarry, dirt piles, equipment 165' N of rwy, 150' W of Rwy 17-35. Rwy 17-35, equipment parked along E side of rwy, S end. Rwy 17, - 20' drop off, N end of rwy. Rwy 14-32 marked

with 3' cones; Rwy 23 and Rwy 14-32 dsplcd thids marked with three 3' yellow cones each side. ACTIVATE MIRL Rwv 09-27-CTAF. WEATHER DATA SOURCES: AWOS-3 118.075 (231) 448-3081.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) MINNEAPOLIS CENTER APP/DEP CON 134.6 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84′ W84°39.85′ 282° 38.2 NM to fld. 840/6W.

ST JAMES NDB (MHW) 382 SJX N45°41.60′ W85°33.50′ at fld. NOTAM FILE SJX. Unmonitored.

2 S

COMMUNICATIONS: CTAF/UNICOM 122.8

S4 **FUEL** 100LL NOTAM FILE LAN RWY 17-35: 3500X140 (TURF)

RWY 35: Thid dspicd 1350'. Trees. RWY 17. Tree

RWY 09-27: H2512X30 (ASPH)

RWY 09: Thid dspicd 450'. Trees. RWY 27: Thid dspicd 240'. Trees.

AIRPORT REMARKS: Attended continuously. Deer on and invof arpt. Rwy 27 acft parked in primary sfc south side. Rwy

17 rolling terrain, rough with bare spots. LIRL Rwy 09-27 not for public use; without prior approval call 231-448-2071 or 231-448-2374. LIRL located 72' from pavement edge each side. Rwy 17-35 marked with 3'

UTC-5(-4DT) N45°43.27′ W85°31.22′

yellow cones; Rwy 35 dsplcd thid marked with yellow cones and reflectors each side.

€3 Park

EC. 23 SEP 2010 to 18 NOV 2010

GREEN BAY

I_31R

RWY 27: REIL. PAPI(P4L)-GA 4.0° TCH 32'. Road.

IAP

GRFFN BAY

BELLAIRE

ANTRIM CO (ACB) 1 NE UTC-5(-4DT) N44°59.32′ W85°11.90′

FUEL 100LL JET A NOTAM FILE ACB RWY 02-20: H5000X100 (ASPH) S-38, D-55 MIRL

RWY 02: REIL. PAPI(P2L)-GA 3.0° TCH 42'. Tree.

RWY 20: REIL, PAPI(P2L)-GA 3.25° TCH 45', Trees.

AIRPORT REMARKS: Attended Jun-Sep 1300-2300Z‡, Oct-May 1200-2200Z‡. For fuel other times call 231-536-7017. For acft

maintenance repairs call 1-800-959-1829. Snow removal equipment on rwy and twy during winter months. Birds on and invof arpt. MIRL Rwy 02-20 preset, to increase ints and ACTIVATE

REIL Rwy 02-20-CTAF, Ldg fee applies to turbine and jet engine acft; waived with 100 gallon fuel purchase.

WEATHER DATA SOURCES: AWOS-3 119.275 (231) 533-8941. COMMUNICATIONS: CTAF/UNICOM 122.7

(R) MINNEAPOLIS CENTER APP/DEP CON 132.9 GCO 121.725 (MINNEAPOLIS CENTER CLNC and FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE TVC.

TRAVERSE CITY (H) VORTACW 114.6 TVC Chan 93 N44°40.07' 040° 24.4 NM to fld. 912/2W. W85°33.00'

CLAM LAKE NDB (MHW) 251 CXK N44°53.96′ W85°14.38′

023° 5.6 NM to fld. NOTAM FILE ACB. Unmonitored.

BELLEVILLE (43G) 3 SW UTC-5(-4DT) N42°10.60′ W83°32.75′

NOTAM FILE LAN

RWY 15-33: 2253X80 (TURF) RWY 15: Fence, Thid dspicd 853', Rgt tfc.

FUEL 100LL

RWY 18-36: 2157X160 (TURF) (LOCAL USE ONLY)

RWY 18: Trees. Rgt tfc. RWY 36: Road.

AIRPORT REMARKS: Attended 1300-2200Z‡. Rwy 18-36 local use only-displacements not marked. Rwy soft during thawing season. Winter ops verify rwy/snow conditions. Rwy 15-33 thlds and dsplcd thlds marked with cones. COMMUNICATIONS: CTAF 122.9

RWY 33: Thid dspicd 600'. Road.

696 S4

IAP 00000 **(3 (3** 0 0 0 0 0 000 0 000 G. a ß Ø ું હું હું હું હું હું હું હું 50 Œ G G ß €3 €3 €3 G G ଫୈଷ Œ ag a ଞ୍ପ୍ର୍ପ 0 0 0 0 ଫଫଫ (3 C) 007 Ø Ğ 03 03 5000, ć - 1 **C3** Ċ œ G G G C, C €3 (3 C)

> DETROIT COPTER

GREEN BAY

H-2L, L-31B

RENTON HARROR

SOUTHWEST MICHIGAN RGNL (BEH) 2 NE UTC-5(-4DT) N42°07.72′ W86°25.71′ S4 FUEL 100LL, JET A1+ OX 3 NOTAM FILE BEH

CHICAGO H-5E, 10F, L-281

RWY 09-27: H5107X100 (ASPH-GRVD) S-60, D-100, 2D-100 HIRI

S-30, D-45

RWY 09: REIL. VASI(V4L)-GA 3.0° TCH 44'.

RWY 27: MALSR, Thid dspicd 571', Trees. RWY 13-31: H3661X100 (ASPH)

RWY 13: REIL. VASI(V4L)-GA 3.5° TCH 45'. RWY 31: REIL. VASI(V4L)-GA 4.0° TCH 41'. Trees.

S-16 MIRI

RWY 18-36: H2498X100 (ASPH)

AIRPORT REMARKS: Attended Sat-Sun 1200-2100Z‡, May-Oct Mon-Fri

1200-0100Z±, Nov-Apr Mon-Fri 1200-2300Z±, For attendant

other times call 269-545-3535, 269-757-1634, Call-in fee, For svc after hrs call 269-325-7529. Call-in fee. Rwy 09 +38' lighted ILS antenna, 152' from rwy end, 300' right, Rwy 13 and Rwy 18 drop off begins 90' from paved sfc, Rwy 09 drop off begins 110' from thid. Birds and deer on and invof arpt. Snow removal ops in progress winter months; vehicle operators will monitor CTAF, Acft arriving/departing Benton Harbor announce intentions on CTAF.

Rwy 18-36 pavement cracking. ACTIVATE HIRL Rwy 09-27, MIRL

Rwys 13-31 and 18-36; MALSR Rwy 27; REIL Rwy 09, Rwy 13

5107 X 100 n & ુ ફેંડ ઉદ્યુપ્ત ä હિલ્લું લે 00 and Rwy 31-CTAF. Ldg fee for all multi-engine acft and commercial

single engine acft waived with minimum fuel purchase. WEATHER DATA SOURCES: ASOS 121.55 (269) 925-9008 COMMUNICATIONS: CTAF/UNICOM 123.0

KEELER RCO 122.1R 116.6T (LANSING RADIO) R SOUTH BEND APP/DEP CON 118.55 (Sun-Fri 1030-0500Z, Sat 1030-0445Z), other times ctc

R CHICAGO CENTER APP/DEP CON 127.55 SOUTH BEND CLNC DEL 119.7

AIRSPACE: CLASS E svc 1100-0430Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

KEELER (L) VOR/DME 116.6 ELX Chan 113 N42°08.66′ W86°07.36′

MALLY NDB (LOM) 397 BE N42°07.61′ W86°18.80′ 274° 5.1 NM to fld. Unmonitored. ILS 108.5 LOM MALLY NDB. Unmonitored. LOC unusable byd 20° left of course and byd I-BEH Rwy 27.

16 NM

BERRIEN SPRINGS N41°57.10′ W86°22.06′ RC0 121.625 (LANSING RADIO)

ANDREWS UNIVERSITY AIRPARK (C2Ø) 2 W UTC-5(-4DT)

S4

BERRIEN SPRINGS

FUEL 100LL NOTAM FILE LAN RWY 13-31: H4160X75 (ASPH) LIRL (NSTD)

RWY 13: Brush. Rgt tfc.

RWY 31: Thid dspicd 1140'. Trees.

RWY 03-21: 1944X115 (TURF) (LOCAL USE ONLY)

RWY 03: Thid dspicd 613'. Trees.

RWY 21: Thid dspicd 550'. Trees. Rgt tfc.

AIRPORT REMARKS: Attended Sun-Fri 1300-2200Z‡, Sycs avbl Sun-Fri

only. Fuel 24 hour self svc. Rwy 31 NSTD LIRL due to dsplcd thid

not lighted. Last 3,021' is lighted. ACTIVATE LIRL Rwy 13-31-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.7

BERRIEN SPRINGS RCO 121.625 (LANSING RADIO) R SOUTH BEND APP/DEP CON 118.55 (Sun-Fri 1030-0500Z, Sat 1030-0445Z), other times ctc

R CHICAGO CENTER APP/DEP CON 127.55 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. GIPPER (H) VORTACW 115.4 GIJ Chan 101 N41°46.12'

W86°19.11' 349° 11.2 NM to fld. 804/00E. HIWAS.

CHICAGO L-281 N41°57.06′ W86°22.08′ CHICAGO L-281 IAP a 3 a €3 Residential ¢ Œ æ €3

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266° 13.7 NM to fld. 795/00E.

BETZ (See BLISSFIELD)

2 NW

(ROB)

RWY 09-27: H4300X75 (ASPH)

RWY 14-32: H2700X75 (ASPH)

RWY 14. Trees

RWY 27: REIL. PAPI(P4L). Tree.

COMMUNICATIONS: CTAF/UNICOM 122.8

R MINNEAPOLIS CENTER APP/DEP CON 120.85 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. WHITE CLOUD (L) VOR/DME 117.6 HIC

(See FLINT)

2 N

FUEL 100LL

RWY 09-27: 2602X92 (TURF) RWY 09: Thid dspicd 415'. Road.

COMMUNICATIONS: CTAF 122.9

RWY 10-28: H3498X75 (ASPH)

RWY 10: Thid dspicd 90'. Road.

BOIS BLANC ISLAND

10-28-CTAF. COMMUNICATIONS: CTAF 122.9

840/6W.

657 FIIFI 10011 RWY 09-27: H4000X75 (ASPH)

27-122.9.

BOYNE CITY MUNI

RIG RAPINS

ROBEN-HOOD

UTC-5(-4DT) S4 FUEL 100LL NOTAM FILE ROB

S-20

RWY 32. Tree

Rwy 09 and Rwy 27; REIL Rwy 09 and Rwy 27-CTAF.

WEATHER DATA SOURCES: AWOS-3 121.125 (231) 796-0884.

W85°42.97' 047° 12.8 NM to fld. 920/1W.

NOTAM FILE LAN

3 NW

MIRL

PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84′ W84°39.85′

UTC-5(-4DT)

(6Y1)

NOTAM FILE LAN

RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

HIWAS.

COMMUNICATIONS: CTAF/UNICOM 122.8 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN. PELLSTON (L) VORTACW 111.8 PLN

(N98)

1 SE

MIRI RWY 09: PAPI(P2L)—GA 4.0° TCH 28'. Thid dsplcd 600'. Road.

NOTAM FILE LAN

MIRI

S-20 RWY 09: REIL PAPI(P2L)-GA 3.33° TCH 25'. Trees.

MIRI

UTC-5(-4DT) N41°51.34′ W83°52.25′

public use; marked with white lgts. Rwy 09-27 thlds and dsplcd thlds marked with cones.

UTC-5(-4DT)

N43°43.36' W85°30.24'

0.3% up NW

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z±, 24 hr self serve

fuel, Call in fee charged. Deer on and invof arpt, Rwv 14-32

extensive cracking. Ultralight activity on and invof arpt. Rwy 09

Chan 123 N43°34 49'

RWY 27: Thid dsplcd 390'. Road.

AIRPORT REMARKS: Unattended. 231-634-7123 manager residence, 231-634-7052 unattended arpt manager office phone at arpt, 231-634-7061 unattended arpt phone. Deer and birds on and invof arpt. ACTIVATE MIRL Rwy

AIRPORT REMARKS: Unattended. Self svc fuel. Deer and birds on and invof rwys. +4' fence parallel to rwy, 84' south of rwy centerline, +6' fence 122' north of rwy centerline. ACTIVATE MIRL Rwy 09-27, PAPI Rwy 09, REIL Rwy

Chan 55 N45°37.84′ W84°39.85′

EC. 23 SEP 2010 to 18 NOV 2010

N45°45.98' W84°30.23'

Rwy 28: REIL. PAPI(P4L)-GA 4.0° TCH 33'. Trees.

N45°12.50′ W84°59.42′

REIL OTS indef. ACTIVATE MIRL Rwv 09-27 and Rwv 14-32: PAPI

BLISSFIELD BETZ (44G)

BISHOP INTL

AIRPORT REMARKS: Unattended. Fuel avbl by prior arrangement; phone 517-499-4860. Rwy 09-3' ditch 10' from thld. To confirm snow conditions winter months call 517-499-4860. Rwy 09-27 NSTD LIRL on arpt not for

LAKE HURON

GREEN BAY

L-31B

L-31C

DETROIT

COPTER

CHICAGO

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Residential Aran

Residential

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046° 10.6 NM to fld.

215° 28.9 NM to fld. 840/6W. HIWAS

RWY 27: REIL. Trees.

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63 ß L-281

IAP

N45°09.95′ W84°55.45′

LAKE HIIRON

H-2L, L-31B

C C

IΛP

ROYNE FALLS BOYNE MOUNTAIN (BFA) 1 W UTC-5(-4DT) FUEL 100LL, JET A + NOTAM FILE LAN

RWY 17-35: H5187X60 (ASPH) LIRL(NSTD) RWY 17: REIL. Thid dsplcd 300'. Road.

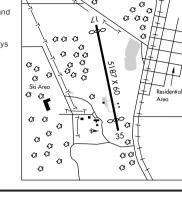
RWY 35: REIL. Thid dspicd 500'. Trees. AIRPORT REMARKS: Unattended, For fuel call 231-549-6000, Deer and

birds on and invof arpt. Rwy 17-35 extensive cracking. Rwy 17-35 NSTD LIRL, 80' from rwy edges. Rwy has reflectors summer months. ACTIVATE NSTD LIRL Rwv 17-35 and REIL Rwvs 17 and 35-122.85. Rwy 17-35 has 10' paved shoulder each

side: last 4700' Rwv 35. COMMUNICATIONS: CTAF/UNICOM 122.8 R MINNEAPOLIS CENTER APP/DEP CON 134.6 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84′ W84°39.85′ 208° 30 NM to fld. 840/6W. HIWAS.

(See BOYNE FALLS)



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BRANCH CO MEML (See COLDWATER)

BOYNE MOUNTAIN

BRIGHTON (45G) 3 N UTC-5(-4DT) N42°34.19′ W83°46.71′

NOTAM FILE LAN

RWY 04-22: H3120X24 (ASPH) MIRL (NSTD)

RWY 04: Thid dspicd 195'. Trees.

rotating bcn. MIRL Rwy 04-22 and PAPI Rwy 22-CTAF. COMMUNICATIONS: CTAF 122.9

SALEM (L) VORTAC 114.3 SVM

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. Chan 90 N42°24.53' W83°35.65'

BROOKI YN SHAMROCK FLD (6G8) 1 SE

UTC-5(-4DT) N42°05.70' W84°14.45' NOTAM FILE LAN RWY 01-19: 2822X100 (TURF) LIRL

RWY 19: Thid dsplcd 613'. P-line. RWY 01: Tree. Rgt tfc. AIRPORT REMARKS: Attended May-Nov irregularly, Dec-Apr arpt CLOSED, CAUTION: Deer on and invof arpt, 105' unlighted p-line and tower ¼ mile from thid extended left and right of centerline Rwy 19. ACTIVATE LIRL Rwy 01-19—CTAF. All tfc patterns conducted E of Rwy 01-19. Rwy 01-19 marked with 3' yellow cones; dsplcd thld marked with 3 cones each side.

NOTAM FILE CAD.

EC. 23 SEP 2010 to 18 NOV 2010

COMMUNICATIONS: CTAF 122.9 BROOKS FLD (See MARSHALL) BUNCH'S HALF ACRE

(See HARRIETTA) **CACKLEBERRY** (See DEXTER)

CADILLAC N44°16.50′ W85°24.86′

NDB (MHW) 269 CAD at Wexford Co. RWY 22: PAPI(P4L)—GA 3.6° TCH 28', Thid dsplcd 365', Trees.

DETROIT

AIRPORT REMARKS: Attended irregularly. Rwy 04-22 NSTD MIRL located 50' from rwy edge, NSTD configuration for thids. Rwy 22 NSTD PAPI, NSTD installation-may only be visible on short final apch. For local use only. ACTIVATE 323° 12.7 NM to fld. 950/3W.

COPTER L-28J, A

DETROIT

COPTER

GREEN BAY

L-31B

CADILLAC

WEXFORD CO (CAD) 2 N UTC-5(-4DT) N44°16.52′ W85°25.14′ S4 FUEL 100LL, JET A NOTAM FILE CAD

S-30, D-45 RWY 07: REIL. MALS. VASI(V2L)-GA 3.0° TCH 41'.

Chan 93 N44°40.07′ W85°33.00′

 \sim Œ

GREEN RAY

H-2L, L-31B

RWY 25: REIL, PAPI(P4L)—GA 3.0° TCH 44', Railroad. RWY 18-36: 2006X150 (TURF) RWY 18: Trees. RWY 36: Stack.

RWY 07-25: H5000X100 (ASPH-PFC)

AIRPORT REMARKS: Attended Mon-Fri 1200-2200Z±, Jun-Aug Sat-Sun

1200-2200±, Sep-May Sat-Sun 1200-1800Z±, After hrs

attendance avbl on reg 231-779-9211. Unattended New Years, Easter, Thanksgiving, Christmas, Fuel 24 hr self svc. Rwv 18-36

CLOSED Dec thru Mar and when snow covered except for ski equipped acft. Deer on and invof arpt. Glider activity on and invof arpt Apr-Nov. Ultralight activity on and invof arpt Apr-Nov. ACTIVATE MIRL Rwy 07-25; MALS Rwy 07; REIL Rwy 07 and Rwy 25: VASI Rwy 07 and PAPI Rwy 25—CTAF, Ldg fee, Ldg fee for marked with 18 inch yellow cones.

169° 24.2 NM to fld. 912/2W.

commercial ops waived with minimum fuel purchase. Rwv 18-36 WEATHER DATA SOURCES: AWOS-3 128.325 (231) 779-9536. COMMUNICATIONS: CTAF/UNICOM 122.8 (R) MINNEAPOLIS CENTER APP/DEP CON 132.9 GCO 121.725 (MINNEAPOLIS CENTER CLNC and LANSING FSS) RADIO AIDS TO NAVIGATION: NOTAM FILE TVC.

CADILLAC NDB (MHW) 269 CAD N44°16.50′ W85°24.86′ at fld. NOTAM FILE CAD. WEXOR NDB (LOM) 336 MA N44°14.22′ W85°32.84′ 071° 6 NM to fld. IIS/DMF 108 55 I-MAY Chan 22(Y) Rwv 07. LOM WEXOR NDB.

CALKINS FLD (see WAYLAND)

(See STANWOOD)

RCO 122.1R 115.7T (LANSING RADIO)

(W87)

RWY 18: Thid dsplcd 1000'. P-line. RWY 09-27: 1920X60 (TURF)

RWY 09: Thid dsplcd 660'. P-line.

side. Rwy 18-36 marked with 3' yellow cones.

S2 FUEL 100LL

RWY 18-36: 2575X60 (TURF)

COMMUNICATIONS: CTAF 122.9

TRAVERSE CITY (H) VORTACW 114.6

(See CLIO)

CANTON-PI YMOUTH-METTETAL

NDB (MHW/LOM) 230 VQ

CAPITAL REGION INTL

HIWAS

CAGNEY

CAIN FLD

CARLETON

WICKENHEISER

CALVIN CAMPBELL MUNI (See INDIAN RIVER)

(See PLYMOUTH)

(See LANSING)

CARGL N42°21.38′ W82°57.26′. NOTAM FILE DET.

327° 4 NM to Coleman A. Young Muni.

CARLETON N42°02.88′ W83°27.45′ (H) VORTAC 115.7 CRL

NOTAM FILE LAN

NOTAM FILE LAN.

Chan 104

3 S UTC-5(-4DT) N42°01.09' W83°22.63'

RWY 36: Trees.

RWY 27: Trees.

EC. 23 SEP 2010 to 18 NOV 2010

AIRPORT REMARKS: Attended irregularly. No snow removal. Acft maintenance by prior arrangement; call arpt manager on 734-654-6249. Rwy 09-27 thids marked with tires; Rwy 09 dsplcd thid marked with 3 yellow tires each

VOR portion unusable 360° – 040° blo 5000'. DME unusable byd 35 NM blo 2500'.

028° 10.9 NM to Detroit Metropolitan Wayne Co. 629/3W.

DETROIT

DETROIT

H-10G, L-28J, A

DETROIT

COPTER

CARO

TUSCOLA AREA (CFS) 3 SW UTC-5(-4DT) N43°27.53′ W83°26.73′ B S4 FUEL 100LL JET A NOTAM FILE CFS

RWY 05-23: H4300X75 (ASPH) MIRL 0.4% up NF

RWY 05: REIL. PAPI (P4L)-GA 3.0° TCH 25'. Trees.

RWY 23: REIL. PAPI(P4L)-GA 4.0°. Trees. RWY 12-30: 2300X110 (TURF)

RWY 12. Trees RWY 30: Thid dspicd 500'. Trees. AIRPORT REMARKS: Attended irregularly, For fuel after hrs call

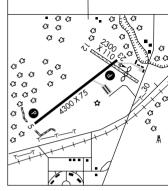
989-673-2849; if arpt manager is unavbl call 989-673-2849. Deer on arpt. ACTIVATE MIRL Rwy 05-23; REIL and PAPI Rwy 05 and 23-CTAF. Rwv 12-30 thids and dsplcd thids marked with

cones WEATHER DATA SOURCES: AWOS-3 119,275 (989) 672-4182.

COMMUNICATIONS: CTAF/UNICOM 123.0 (R) SAGINAW APP/DEP CON 120.95 (1100-0400Z‡)

CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE MBS.

SAGINAW (L) VORW/DME 112.9 MBS Chan 76 N43°31.90' W84°04.64′ 102° 27.9 NM to fld. 663/3W. HIWAS.



CARSONVILLE

CIRCLE U HELIPORT UTC-5(-4DT) N43°29.49′ W82°37.42′ (2F2) 5 SW 729 NOTAM FILE LAN

UTC-5(-4DT)

HELIPAD H1: H47X17 (CONC)

R S4

CHARLEVOIX MUNI

COMMUNICATIONS: CTAF/UNICOM 123.05

HELIPORT REMARKS: Attended dusk-dawn. Apch departure routes 340°-020° and 115°-140°. Helipad H1 perimeter Igts. Perimeter Igts OTS indef.

N45°18.29′ W85°16.52′

(CVX) FUEL 100LL, JET A NOTAM FILE CVX RWY 09-27: H4550X75 (ASPH) S-12.5 MIRL

RWY 09: REIL. PAPI(P4R)-GA 3.0°. Tree. RWY 27: REIL. PAPI(P4R)-GA 3.0° TCH 31'. Trees.

RWY 04-22: 1280X200 (TURF)

RWY N4: Trees RWY 22: Tree.

AIRPORT REMARKS: Attended dawn-dusk. For fuel dawn-dusk call

231-547-2141. After hrs call 231-547-2058. Rwv 04-22 CLOSED Nov-Apr. Deer and birds on and invof arpt. Rwv 09

preferred rwy for ldg ngts, jets and turboprop acft. Rwy 27 preferred rwy for tkf ngts, jets and turboprop acft. Rwy 09-27 slopes up from E to W. -100' quarry/mine, 300' from Rwy 9 thld. ACTIVATE MIRL Rwy 09-27; REIL and PAPI Rwy 09 and Rwy 27-CTAF. Rwy 04-22 marked with 3' yellow cones. Landing fee.

1 SW

Landing fee waived with minimum fuel purchase. WEATHER DATA SOURCES: AWOS-3 120 (231) 237-9703.

COMMUNICATIONS: CTAF/UNICOM 122.8 GCO 121 725

(R) MINNEAPOLIS CENTER APP/DEP CON 134.6 (MINNEAPOLIS CENTER and FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE PLN. PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84'

W84°39.85' 239° 32.4 NM to fld. 840/6W. HIWAS

NDR (MHW) 392 CVX N45°18.11' W85°15.20'

MM

COMM/NAV/WEATHER REMARKS: GCO OTS indef.

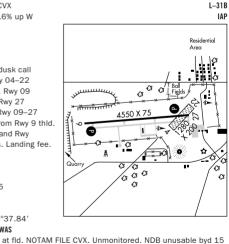
DETROIT

DETROIT

GREEN BAY

IAP

L-28J. 31C



CHARI OTTE

FITCH H BEACH (FPK) 2 NE UTC-5(-4DT) N42°34 47′ W84°48 69′

B S4 FUEL 100LL NOTAM FILE FPK S-26

MIRL

0.3% up NF

RWY 02: REIL. PAPI(P4L)-GA 4.0° TCH 40'. Trees. RWY 20: REIL. PAPI(P4L)-GA 4.0° TCH 40'. Pole.

RWY 02-20: H3500X75 (CONC)

RWY 14-32: 2318X100 (TURF)

RWY 14: Thid dsplcd 575'. Trees.

RWY 32: Thid dspicd 189'. Road. AIRPORT REMARKS: Attended 1300Z±—dusk, Military helicopter ops on

and invof arpt, particularly at ngt. Be alert occasional deer on rwys, Rwy 14-32 CLOSED Dec-Mar and when snow covered, Rwy

14-32 thids and dsplcd thids marked with 3' vellow cones. ACTIVATE MIRL Rwy 02-20; REIL and PAPI Rwy 02 and 20-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.075 (517) 543-2288.

COMMUNICATIONS: CTAF/UNICOM 123.0 (R) LANSING APP/DEP CON 118.65

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

LANSING (L) VORTACW 110.8 LAN Chan 45 N42°43.04'

W84°41.85′ 216° 9.9 NM to fld. 887/5W.



WEND VALLEY (49G) 3 NW UTC-5(-4DT) N42°34.75′ W84°54.50′ NOTAM FILE LAN

RWY 18-36: 1800X100 (TURF)

RWY 18: Trees. RWY 36: Trees.

AIRPORT REMARKS: Attended irregularly. No snow removal on Rwy 18-36. Arpt CLOSED Dec-Mar and when snow covered. Ultralight activity on and invof arpt. +30' p-line north end rwy. Rwy 18 and dsplcd thld marked with 3' vellow cones.

UTC-5(-4DT) N45°39.22′ W84°31.16′

COMMUNICATIONS: CTAF 122.9

CHEBOYGAN CHEBOYGAN CO

> S4 FUEL 100LL, JET A NOTAM FILE SLH RWY 10-28: H4005X75 (ASPH) S-23, D-34, 2D-60 MIRL 0.3% up W

RWY 10: REIL. PAPI(P2L)-GA 4.0° TCH 25'. Road. RWY 28: REIL. PAPI(P2L)-GA 4.0° TCH 25'. Trees.

(SLH) 2 W

RWY 16-34: 1600X75 (TURF) RWY 34: Thid dspicd 500'.

AIRPORT REMARKS: Attended 1300-2200Z‡. 100LL 24 hr self-serve. For Jet A after hrs call 231-627-7921, 231-420-0334. Deer and birds on and invof arpt. Rwy 16-34 CLOSED Dec-Mar and when

snow covered. Rwy 16-34 soft when wet. Rwy 16 rwy and dsplcd thid marked with 3' vellow cones. ACTIVATE MIRL Rwv 10-28. PAPI Rwy 10 and Rwy 28 and REIL Rwy 10 and Rwy 28-122.5. WEATHER DATA SOURCES: AWOS-3 118.175 (231) 627-4671.

COMMUNICATIONS: CTAF/UNICOM 122.8

R MINNEAPOLIS CENTER APP/DEP CON 134.6 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

PELLSTON (L) VORTACW 111.8 PLN

Chan 55 N45°37.84' W84°39.85' 083° 6.3 NM to fld. 840/6W. HIWAS

DETROIT

LAKE HURON

L-31C

DETROIT

L-28J

IAP

IAP

Ø ~ C C **(3 (3** Golf Course 43 a 4005 X 75 5 Ø 43 €3 G G ß C C C3 C3 ଔ୕ୡ ß ଓଡ଼ିଓ

LAKE HIIRON

DETROIT

GREEN BAY

L-31B

DETROIT

COPTER

UTC-5(-4DT)

RWY 33: Thid dspicd 900'. Trees.

MICHIGAN

HOFFMAN'S BLACK MOUNTAIN AERODROME (2M7)

11 SE

N45°31 92' W84°18 48' 677 S4 NOTAM FILE LAN RWY 15-33: 2800X90 (TURF)

RWY 15: Thid dspicd 1200'. Trees. AIRPORT REMARKS: Attended irregularly, Rwy 15-33 ditch on both sides of rwy, Rwy 15-33 soft when wet. Call 231-627-2418 to confirm rwy conditions. Rwy rough, uneven, tire ruts. Rwy 15-33 edges and dsplcd thids are marked with vellow cones.

COMMUNICATIONS: CTAF/UNICOM 122 8 CHERRY CAPITAL (See TRAVERSE CITY)

CHESANING

HOWARD NIXON MEML (5ØG) 1 W UTC-5(-4DT) N43°10.99′ W84°08.00′ NOTAM FILE LAN

RWY 18-36: 2582X150 (TURF) LIRI

RWY 18: Thid dspicd 400'. Trees. RWY 36: Thid dspicd 796'. Trees.

RWY 09-27: 2060X150 (TURF)

COMMUNICATIONS: CTAF 122.9

RWY 27: Thid dsplcd 800'. Trees. AIRPORT REMARKS: Attended irregularly. No winter snow removal, Rwy 18-36 marked with 3' vellow cones including dsplcd thlds. Rwy 09-27 marked with 3' cones including dsplcd thlds. ACTIVATE LIRL Rwy 18-36-CTAF.

CHIPPEWA CO INTI (See SAULT STE MARIE)

(See CARSONVILLE)

CIRCLE U HELIPORT NDB (MHW) 251 CXK

CLAM LAKE N44°53.96′ W85°14.38′ NOTAM FILE ACR 023° 5.6 NM to Antrim Co. Unmonitored. CLARE MUNI (48D) 1 F UTC-5(-4DT)FUEL 100LL NOTAM FILE LAN

RWY 04-22: H3500X75 (ASPH) MIRL 0.9% up NE RWY 04: REIL. PAPI(P4L)—GA 4.0° TCH 35'. Trees. RWY 22: REIL, PAPI(P2L)-GA 3.0° TCH 25', Trees. RWY 09-27: H2500X75 (ASPH) S-20 MIRI RWY 09: Trees. RWY 27: Fence.

AIRPORT REMARKS: Attended irregularly, 24 hour self serve fuel avbl with credit card. Deer on and invof arpt. Rwy 22 REIL OTS indef. ACTIVATE MIRL Rwy 04-22, Rwy 09-27, REIL Rwy 04 and Rwy 22 and PAPI Rwy 04 and Rwy 22-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8 (R) SAGINAW APP/DEP CON 126.45 (1130-0400Z‡) CLEVELAND CENTER APP/DEP CON 127.7 (0400-1130Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

MOUNT PLEASANT (L) VORW/DME 110.6 MOP Chan 43 N43°37.37′ W84°44.24′ 004° 12.7 NM to fld. 752/5W.

(See HARRISON)

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CLINTON

CLARE CO

HONEY ACRES (7N4)

820 NOTAM FILE LAN

RWY 18-36: 3800X90 (TURF) RWY 18: Thid dspicd 600'. Tree.

COMMUNICATIONS: CTAF 122.9

EC. 23 SEP 2010 to 18 NOV 2010

N43°50.07′ W84°44.41′

DETROIT L-28J. 31C

1 W UTC-5(-4DT) N42°04.67' W83°59.16'

RWY 36: Thid dspicd 600', Bldg.

AIRPORT REMARKS: Attended irregularly. Rwy 36, +18' p-line 430' from thld marked with orange balls. Rwy 18-36 thids and dsplcd thids marked with 3' yellow cones.

CHIN

COLDWATER

BRANCH CO MEML

RWY NA. Tree

CAGNEY 3 SW UTC-5(-4DT) N43°08.58' W83°47.75' (51G)

TPA-1722(1000) NOTAM FILE LAN RWY 03-21: 1933X100 (TURF) RWY 21. Tree

RWY 14-32: 1895X140 (TURF) RWY 32: Trees. PWV 14. Trop

RWY 03. Trees

RWY 18-36: 1802X100 (TURF) RWY 18: Thid dspicd 500'. Trees.

S-20

S-18

RWY 36: Thid dspicd 358'. Trees.

AIRPORT REMARKS: Attended continuously, Deer on and invof arpt, Rwy 03-21, Rwy 14-32 and Rwy 18-36 rough. Glider ops left and rgt tfc to all rwys. Rwy 32 apch end wet in spring after rain. Rwy 18-36 marked with yellow

COMMUNICATIONS: CTAF 122.9

S4

RWY 07-25: H5350X75 (ASPH)

RWY 04-22: H3500X75 (ASPH)

RWY 16-34: 2400X190 (TURF) RWY 16: Thid dsplcd 595'. Trees.

cones, Rwy 03-21 and Rwy 14-32 irregularly defined by mowing, Rwys 03-21 and 14-32 local use only. Check

(OEB)

RWY 07: PAPI(P2L)-GA 3.0° TCH 32'. Trees.

RWY 25: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Road.

RWY 22. Tree

MIRI

NOTAMS for rwy condition winter months-no snow removal.

FUEL 100LL, JET A NOTAM FILE OEB

RWY 34: Trees.

3 W UTC-5(-4DT) N41°56.01′ W85°03.14′

CHICAGO H-5E, 10F, L-28I Rwy 16-34: 2400 X 190

DETROIT

DETROIT

AIRPORT REMARKS: Attended irregularly. Deer on and invof arpt. 24 hr self svc fuel with major credit card. Rwy 07-25 plowed winter

244° 15 NM to fld. 1040/05W.

months. Call arpt manager at 517-617-7145 for conditions. Admin building access-depress V, then simultaneous III-II, then I. Preferred calm wind Rwy 25. ACTIVATE MIRL Rwy 04-22 and Rwy 07-25 and REIL Rwy 25-CTAF, Rwy 16 and dsplcd thid marked with 3' vellow cones. WEATHER DATA SOURCES: AWOS-3 118.125 (517) 279-1810. COMMUNICATIONS: CTAF/UNICOM 122.7

LITCHFIELD RCO 122.1R 111.2T (LANSING RADIO) R KALAMAZOO APP/DEP CON 121.2 (1100-0400Z‡) (R) CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. LITCHFIELD (L) VOR/DME 111.2 I FD Chan 49 N42°03.75' W84°45.91'

(See DETROIT)

(See SANDUSKY)

COWLEY FLD

CROSWELL

COLEMAN A. YOUNG MUNI

ARNOLD FLD (55G)

NOTAM FILE LAN

2 NE UTC-5(-4DT) N43°17.87′ W82°36.40′

RWY 18-36: 2585X140 (TURF)

RWY 18: Thid dspicd 500'. Trees.

RWY 07-25: 2570X75 (TURF)

RWY 07: Thid dsplcd 540', P-line.

AIRPORT REMARKS: Unattended, Arpt CLOSED Nov-Mar, Winter ops skis only, Rwy 18-36 marked with cones, dsplcd

thId marked three 12 inch yellow cones each side. Rwy 07 dsplcd thId marked with 3' boards, Rwy 07-25 thIds defined by mowing. COMMUNICATIONS: CTAF/UNICOM 122.8

EC. 23 SEP 2010 to 18 NOV 2010

RWY 25: Trees.

RWY 36: Thid dsplcd 470', P-line.

143

GREEN RAY

C C

G G

L-31A

IRON CO (5ØD) UTC-6(-5DT) N46°00.54′ W88°16.44′ 6 SE NOTAM FILE GRB RWY 12-30: H3690X50 (ASPH)

RWV N2. Trace

CRYSTAL FALLS

RWY 12. Trees

MIRL (NSTD) RWY 30: Trees RWY 02-20: 2700X145 (TURF) RWV 20. Trace

AIRPORT REMARKS: Unattended. No snow removal. Deer on and invof arpt. Rwv 12-30 has crumbled, has numerous cracks and

vegetation in pavement, Rwy 12-30 numerous cracks in pavement. Rwy 02-20 MIRL NSTD; 36' from rwy edge. Rwy 02

also 92' tree: 2300' distance; apch ratio 25:1, based on straight out. ACTIVATE NSTD MIRL Rwy 12-30-121.7. Rwy 02-20 marked with 3' yellow cones. Rwy paint markings have failed.

COMMUNICATIONS: CTAF 122.9 RADIO AIDS TO NAVIGATION: NOTAM FILE IMT. IRON MOUNTAIN (L) VOR/DME 111.2 Chan 49 N45°48.96'

IMT W88°06.73' 332° 13.4 NM to fld. 1128/2W.

1 W

UTC-5(-4DT)

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DALTON (See FLUSHING) DAVID'S LANDING (See ST CLAIR)

(See MONROE)

CUSTER

DAVISON

ATHELONE WILLIAMS MEML

(6GØ)

NOTAM FILE LAN

RWY 08-26: H3469X40 (ASPH)

MIRL (NSTD) RWY 08: Thid dsplcd 170', P-line.

rough and has loose asphalt. Rwy 08-26-4' drainage ditch 60' left and right of rwy centerline along entire length. Rwy 08-26 NSTD MIRL; Igts located 20' from rwy edge. COMMUNICATIONS: CTAF 122.9

RWY 26: Thid dsplcd 368'. P-line.

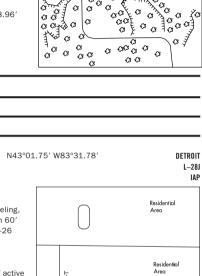
FLINT RCO 122.3 (LANSING RADIO) R FLINT APP/DEP CON 128.55 (N/W of active rwy) 118.8 (E/S of active rwy) (1045-0430Z‡)

CLEVELAND CENTER APP/DEP CON 126.75 (0430-1045Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE FNT.

FLINT (H) VORTACW 116.9 FNT Chan 116 N42°58.01' W83°44.82' 075° 10.3 NM to fld. 772/6W.

AIRPORT REMARKS: Unattended. Rwy 08-26 surface cracked, peeling,

COMM/NAV/WEATHER REMARKS: APP CON sectorization based upon Flint rwy usage



G G

DECKERVILLE

INDIAN CREEK RANCH (56G) 5 NE UTC-5(-4DT) N43°34.66′ W82°38.86′ DETROIT

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RWY 09-27: 3569X100 (TURF)

RWY 09: Tank. RWY 27: P-line. RWY 18-36: 2390X100 (TURF) RWY 18: Trees. RWY 36: Road.

AIRPORT REMARKS: Unattended. Arpt CLOSED Nov 1 to Apr 1. Rwy 18-36 CLOSED indef. Rwys soft in spring. Numerous deer on and invof arpt. Rwv 09-27 and Rwv 18-36 surface rough with irregular mowing. Rwv 09-27

NOTAM FILE LAN

and Rwy 18-36 defined by mowing. Rwy 36 thld marked with 3 cones each side. COMMUNICATIONS: CTAF 122.9

DELTA CO (See ESCANABA)

DFTRNIT COLEMAN A. YOUNG MUNI (DET) 5 NE UTC-5(-4DT) N42°24.55′ W83°00.59′

626 B FUEL 100LL, JET A OX 1, 2, 3 AOE NOTAM FILE DET RWY 15-33: H5090X100 (ASPH - GRVD) S-75, D-135, 2S-120

RWY 15: REIL. VASI(V2R)-GA 3.0° TCH 56'. Trees. RWY 33: REIL, PAPI(P4L)-GA 3.0° TCH 49', Trees.

RWY 07-25: H4025X100 (ASPH) S-12.5 MIRL

RWY 07: Thid dsplcd 715'. Railroad.

RWY 25: PAPI(P4L)—GA 4.0° TCH 40'. Thid dspicd 716'. Pole.

LAND AND HOLD SHORT OPERATIONS

HOLD SHORT POINT DIST AVBL

IANDING **RWY 15** 07-25 4900

AIRPORT REMARKS: Attended continuously. Birds on and invof arpt. Unlighted twr 275' AGL 1 mile WSW. Loading/Unloading Class A

explosives or poisons not permitted, PPR for Class B and C

explosives. Due to noise abatement requirements jets and acft over 12,500 lbs GWT must use Rwy 15-33 except when winds exceed 25 knots, then Rwy 07-25 avbl. Twy D1 clsd indef. Ldg fee for acft 6000 lbs or more. Rwy 33 REIL OTS indef. HIRL Rwy 15-33 step five OTS indef. Rwy 15 VASI OTS indef. Flight Notification Service (ADCUS) avbl.

R DETROIT APP/DEP CON 126.85 TOWER 121.3 GND CON 121.85 RADIO AIDS TO NAVIGATION: NOTAM FILE YOG.

WEATHER DATA SOURCES: ASOS (313) 371-9696. COMMUNICATIONS: ATIS 124.875 UNICOM 122.95 RCO 122.2 122.55 (LANSING RADIO)

WINDSOR ONT VOR/DME 113.8 YOG Chan 85 N42°14.99' W82°49.73' 326° 12.5 NM to fld. 620/6W. MADDS NDB (LOM) 338 DE N42°29.69′ W83°05.60′ 149°6.3 NM to fld. Unmonitored.

CARGL NDB (MHW/LOM) 230 VQ N42°21.38′ W82°57.26′ 327° 4 NM to fld. NOTAM FILE DET. ILS 111.3 I-DET Rwy 15. LOM MADDS NDB.

ILS 111.3 I-VQM Rwy 33. LOM CARGL NDB.

EC. 23 SEP 2010 to 18 NOV 2010

DETROIT COPTER H-10G, L-28J, A IAP, AD

03 03 03 €3 000

RWY 04R-22L: H12003X200 (CONC-GRVD) S-100, D-185, 2S-175, 2D-350 HIRL CL RWY 04R: ALSF2. TDZL. Tree. RWY 22L: MALSR. Railroad.

N42°12.75′ W83°21.20′

Class I. ARFF Index E NOTAM FILE DTW

H-10G, L-28J, A

OX 1, 3, 4

15 S

AOE

S-100 D-185

LDA-8501

LDA-8618

LDA-8500

UTC-5(-4DT)

Rwv 3L-21R: 8501 X 200

IAP, AD

COPTER

RWY 03R-21L: H10001X150 (CONC-GRVD) S-100, D-200, 2S-175,

2D-350, 2D/2D2-750 HIRL CL

RWY 03R: ALSF2, TDZL, PAPI(P4R)—GA 3.0° TCH 54', Trees. RWY 21L: MALSR, PAPI(P4L)—GA 3.0° TCH 55', Berm.

DETROIT METROPOLITAN WAYNE CO (DTW)

RWY 04L-22R: H10000X150 (CONC-GRVD)

FUEL 100LL, JET A

S-100, D-200, HIRL CL

2S-175, 2D-350, DDT-750

RWY 04L: ALSF2. TDZ. Pole. RWY 22R: MALSR. Antenna.

RWY 09L-27R: H8708X150 (ASPH-CONC-GRVD)

2S-175, 2D-350 RWY 09L: REIL. Antenna.

645 R S2

RWY 27R: MALSR. PAPI(P4L)-GA 3.0° TCH 61'.

RWY 03L-21R: H8501X200 (ASPH-CONC-GRVD) 2S-175, 2D-350 HIRL CL

RWY 03L: REIL. PAPI(P4R)-GA 3.0° TCH 58'. Pole.

RWY 21R: REIL, PAPI(P4L)—GA 3.0° TCH 59', Pole.

RWY 09R-27L: H8500X150 (CONC-GRVD) S-100, D-185, 2S-175, 20-350 HIRL CL

RWY 09R: REIL.

RWY 09R:

RWY 27L: MALSR. PAPI(P4L)-GA 3.0° TCH 55'.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 03L: TORA-8501 TODA-8501

ASDA-8501

RWY 03R: TORA-10001 TODA-10001 ASDA-10001 LDA-10001

RWY 04L: TORA-10000 TODA-10000 ASDA-10000 LDA-10000

RWY N4R-TORA-12003 TODA-12003 ASDA-12003 LDA-12003

RWY NOI -TORA-8708 TODA-8708

TORA-8500

RWY 21L: TORA-10001 TODA-10001 ASDA-10001 LDA-10001 RWY 21R-TORA-8501 TODA_8501 ASDA_8501 IDA-8501

TORA-12003 TODA-12003 ASDA-12003 LDA-12003 RWY 221 · RWY 22R-TORA-10000 TODA-10000 ASDA-10000 LDA-10000

RWY 271. TORA-8500 TODA-8500 ASDA-8500 LDA-8500

TORA-8708 TODA-8708 ASDA-8708 IDA-8708 AIRPORT REMARKS: Attended continuously. Be alert birds, waterfowl on and invof arpt. Rwy 21R departures be alert for optical illusion, acft taxiing on Twy T may appear as though crossing Rwy 21R centerline. Rwy 22L departures be

alert for optical illusion, acft taxiing on Twy Q may appear as though crossing Rwy 22L centerline. Brightly Igtd parking lot 2.6 NM SW of arpt. ASDE-X surveillance system in use: pilots should operate transponders with mode C on all twys and rwys. Rwy 03R ALSF2 req when RVR/visibility is 6000/1 mile or less. SSALR ops when RVR/visibility is 6000/1 mile. Rwy 03L-21R touchdown and rollout rwy visual range avbl. Rwy 04L-22R

ASDA-8618

TODA-8500 ASDA-8500

touchdown, midfield and rollout rwy visual range avbl. Rwy 09L rwy visual range midfield avbl. Rwy 27L touchdown rwy visual range avbl. Acft on Twy F and Twy V do not block fire station exits. Twy G N of Twy V is a non-movement area. Unidirectional stop bars on Rwy 27R when being used for taxi. Ldg fee. Flight Notification Service (ADCUS) available.

WEATHER DATA SOURCES: ASOS (734) 941-7848, LLWAS, TDWR.

COMMUNICATIONS: D-ATIS 133.675 734-941-5363

CARLETON RCO 122.1R 115.7T (LANSING RADIO)

R APP CON 125.15 118.575 (EAST) 124.05 (WEST) 124.975 124.25

R DEP CON 132.025 (TURBOJETS-EAST) 134.3 (TURBOPROPS-EAST) 125.525 (TURBOJETS-WEST) 118.95 (TURBOPROP-WEST) 118.575 (EAST)

METRO TOWER 135.0 (West) 128.125 (Rwy 04L-22R) 118.4 (East)

GND CON 121.8 (NORTHWEST) 132.72 (SOUTHWEST) 119.25 (SOUTHEAST) 119.45 (NORTHEAST)

CLNC DEL 120.65 PRE TAXI CLNC 120.65

AIRSPACE: CLASS B: See VFR Terminal Area Chart.

CONTINUED ON NEXT PAGE

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RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

CARLETON (H) VORTAC 115.7 CRL Chan 104 N42°02.88' W83°27.45' 028° 10.9 NM to fld.

629/3W. HIWAS.

DXO Chan 81 N42°12.79′ W83°22.00′ at fld. 638/6W. NOTAM FILE DTW. (H) VORW/DME 113.4

DME unusable byd 30 NM below 2900'.

REVUP NDB (LOM) 388 DT N42°07.21′ W83°25.90′ 038° 6.6 NM to fld. Unmonitored. SHUTDOWN.

DM N42°13.20′ W83°12.20′ SPENC NDB (LOM) 223 272° 6.7 NM to fld.

ILS/DME 111.95 I-HJT Chan 56Y Rwv 04L. Class IIIE. DME also serves Rwv 22R.

ILS/DME 110.7 I-DTW Chan 44 Rwy 04R. LOM REVUP NDB. OM unmonitored. LOM SHUTDOWN. I-DWC ILS/DME 110.7 Chan 44 Rwy 22L. Class IE.

IIS/DMF 111 95 I–IKI Chan 56Y Rwv 22R. Class IE. DME also serves Rwv 04R.

IIS/DMF 111 5 I-HUU Chan 52 Rwy 03R.

ILS/DME 111.5 I-EJR Chan 52 Rwv 21L.

LOM SPENC NDB. I_DMI Rwy 27R. Rwy 27L. I_FPA Class IE.

COMM/NAV/WEATHER REMARKS: Dual VHF communications required for Simultaneous Close Parallel ILS PRM Approaches. Rwy 04L and Rwy 22R Monitor 127.05, Rwy 04R and Rwy 22L Monitor 135.775 and Rwy 03R and

Rwy 21L Monitor 128.35.

MIRL

WILLOW RUN (YIP) 24 SW UTC-5(-4DT) N42°14.36′ W83°31.86′ FUEL 100LL, JET A OX 1, 3 LRA 716 B S4 ARFF Index—See Remarks NOTAM FILE YIP

RWY 05R-23L: H7526X150 (ASPH) S-55, D-70, 2S-89, 2D-120 HIRL

RWY 05R: MALSR. Tree.

RWY 23L: MALSR, VASI(V4L)-GA 3.0° TCH 56'. RWY 09-27: H7294X160 (ASPH-GRVD) S-55, D-70, 2S-89,

2D-120 MIRI

RWY 09: Thid dsplcd 574'. Railroad.

RWY 14-32: H6312X160 (ASPH-GRVD) S-35, D-45, 2D-90

RWY 14: Antenna. RWY 32: REIL, PAPI(P4L)—GA 3.5° TCH 45', Thid dspicd 525'.

Ground.

RWY 05L-23R: H5995X160 (ASPH-GRVD) S-35, D-45, 2D-90 MIRI

RWY 05L: Trees. RWY 23R: Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 05L: TORA-5995 TODA-5995 ASDA-5995 LDA-5995

RWY 23R: TORA-5995 TODA-5995 ASDA-5995 LDA-5995

AIRPORT REMARKS: Attended continuously. Helicopter tkf and ldg on the south ramp prohibited, taxi only. Birds on and invof arpt. Rwys 09-27, only the 80' center portion is grvd. Class IV, ARFF Index

A. ARFF Index E svc avbl on reg call 734-485-6660. 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats requiring Index C or greater call arpt manager 734-485-6670. Flight Notification Service (ADCUS) avbl call

734-942-9000. Customs avbl 24 hrs, Mon-Fri and on call from Detroit Metropolitan Wayne Co arpt on weekend. U.S. customs user fee arpt. All billing thru Wayne Co. Arpt Authority; For customs clearance 1 hr minimum advance notification rgr. Pilots must ctc U.S. customs on 313-226-3140. Reg for customs svc by FAA flight plan is not accepted. Ldg fee. Ldg fee is based on acft gross weight.

WEATHER DATA SOURCES: ASOS 132.350 (734) 485-9056. LAWRS.

COMMUNICATIONS: ATIS 127,425 (734) 482-6590

R DETROIT APP/DEP CON 118.95

GND CON 121.75 TOWER 125.275

RADIO AIDS TO NAVIGATION: NOTAM FILE DTW.

DETROIT (H) VORW/DME 113.4 DXO Chan 81 N42°12.79′ W83°22.00′ 288° 7.5 NM to fld. 638/6W.

YI N42°10.45′ W83°37.29′ YIPPS NDB (LOM) 359 052° 5.6 NM to fld. Unmonitored.

ILS/DME 109.5 I-YIP Rwy 05R. Class IE. LOM YIPPS NDB. Chan 32

ILS/DME 109.5 Class IE. I-LSW Chan 32 Rwy 23L. COMM/NAV/WEATHER REMARKS: Emerg frequencies not avbl at twr.

IAP. AD ය ය ପ୍ର 7294 X 160 m

DETROIT

COPTER

H-10G, L-28J, A

CONTINUED FROM PRECEDING PAGE

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

CARLETON (H) VORTAC 115.7 CRL Chan 104 N42°02.88' W83°27.45' 028° 10.9 NM to fld.

629/3W. HIWAS.

DXO Chan 81 N42°12.79′ W83°22.00′ at fld. 638/6W. NOTAM FILE DTW. (H) VORW/DME 113.4

DME unusable byd 30 NM below 2900'.

REVUP NDB (LOM) 388 DT N42°07.21′ W83°25.90′ 038° 6.6 NM to fld. Unmonitored. SHUTDOWN.

DM N42°13.20′ W83°12.20′ SPENC NDB (LOM) 223 272° 6.7 NM to fld.

ILS/DME 111.95 I-HJT Chan 56Y Rwv 04L. Class IIIE. DME also serves Rwv 22R.

ILS/DME 110.7 I-DTW Chan 44 Rwy 04R. LOM REVUP NDB. OM unmonitored. LOM SHUTDOWN. I-DWC ILS/DME 110.7 Chan 44 Rwy 22L. Class IE.

IIS/DMF 111 95 I–IKI Chan 56Y Rwv 22R. Class IE. DME also serves Rwv 04R.

IIS/DMF 111 5 I-HUU Chan 52 Rwy 03R.

ILS/DME 111.5 I-EJR Chan 52 Rwv 21L.

LOM SPENC NDB. I_DMI Rwy 27R. Rwy 27L. I_FPA Class IE.

COMM/NAV/WEATHER REMARKS: Dual VHF communications required for Simultaneous Close Parallel ILS PRM Approaches. Rwy 04L and Rwy 22R Monitor 127.05, Rwy 04R and Rwy 22L Monitor 135.775 and Rwy 03R and

Rwy 21L Monitor 128.35.

MIRL

WILLOW RUN (YIP) 24 SW UTC-5(-4DT) N42°14.36′ W83°31.86′ FUEL 100LL, JET A OX 1, 3 LRA 716 B S4 ARFF Index—See Remarks NOTAM FILE YIP

RWY 05R-23L: H7526X150 (ASPH) S-55, D-70, 2S-89, 2D-120 HIRL

RWY 05R: MALSR. Tree.

RWY 23L: MALSR, VASI(V4L)-GA 3.0° TCH 56'. RWY 09-27: H7294X160 (ASPH-GRVD) S-55, D-70, 2S-89,

2D-120 MIRI

RWY 09: Thid dsplcd 574'. Railroad.

RWY 14-32: H6312X160 (ASPH-GRVD) S-35, D-45, 2D-90

RWY 14: Antenna. RWY 32: REIL, PAPI(P4L)—GA 3.5° TCH 45', Thid dspicd 525'.

Ground.

RWY 05L-23R: H5995X160 (ASPH-GRVD) S-35, D-45, 2D-90 MIRI

RWY 05L: Trees. RWY 23R: Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 05L: TORA-5995 TODA-5995 ASDA-5995 LDA-5995

RWY 23R: TORA-5995 TODA-5995 ASDA-5995 LDA-5995

AIRPORT REMARKS: Attended continuously. Helicopter tkf and ldg on the south ramp prohibited, taxi only. Birds on and invof arpt. Rwys 09-27, only the 80' center portion is grvd. Class IV, ARFF Index

A. ARFF Index E svc avbl on reg call 734-485-6660. 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats requiring Index C or greater call arpt manager 734-485-6670. Flight Notification Service (ADCUS) avbl call

734-942-9000. Customs avbl 24 hrs, Mon-Fri and on call from Detroit Metropolitan Wayne Co arpt on weekend. U.S. customs user fee arpt. All billing thru Wayne Co. Arpt Authority; For customs clearance 1 hr minimum advance notification rgr. Pilots must ctc U.S. customs on 313-226-3140. Reg for customs svc by FAA flight plan is not accepted. Ldg fee. Ldg fee is based on acft gross weight.

WEATHER DATA SOURCES: ASOS 132.350 (734) 485-9056. LAWRS.

COMMUNICATIONS: ATIS 127,425 (734) 482-6590

R DETROIT APP/DEP CON 118.95

GND CON 121.75 TOWER 125.275

RADIO AIDS TO NAVIGATION: NOTAM FILE DTW.

DETROIT (H) VORW/DME 113.4 DXO Chan 81 N42°12.79′ W83°22.00′ 288° 7.5 NM to fld. 638/6W.

YI N42°10.45′ W83°37.29′ YIPPS NDB (LOM) 359 052° 5.6 NM to fld. Unmonitored.

ILS/DME 109.5 I-YIP Rwy 05R. Class IE. LOM YIPPS NDB. Chan 32

ILS/DME 109.5 Class IE. I-LSW Chan 32 Rwy 23L. COMM/NAV/WEATHER REMARKS: Emerg frequencies not avbl at twr.

IAP. AD ය ය ପ୍ର 7294 X 160 m

DETROIT

COPTER

H-10G, L-28J, A

DETROIT/GROSSE ILE

GROSSE ILE MUNI (ONZ) 2 S UTC-5(-4DT) N42°05.94′ W83°09.69′

DETROIT COPTER L-28J. A

ΙΔΡ

DETROIT

COPTER

CHICAGO

S4 FUEL 100LL JET A TPA-1591(1000) NOTAM FILE ONZ RWY 04-22: H4846X100 (CONC) S-66, D-83, 2D-105 MIRL

RWY 04: REIL. PAPI(P4L)-GA 3.0° TCH 38'. Rgt tfc. RWY 22: REIL, PAPI (P4L)—GA 3.0° TCH 38', Thid dspicd 428',

RWY 17–35: H4425X75 (CONC) S–40, D–55, 2D–90 RWY 17: PAPI(P4L)—GA 3.0° TCH 26', Thid dsplcd 675', Trees.

RWY 35: PAPI(P4L)—GA 3.0° TCH 20', Brush, Rgt tfc. AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z‡, Sat-Sat

1300-2200Z‡, Birds and deer on and invof arpt, Arpt CLOSED to air carrier ops with more than 30 passenger seats except PPR, call arpt manager 734-675-0155. Rwy 04 PAPI OTS indef. Rwy 04 REIL OTS indef. MIRL Rwys 04-22 and 17-35 preset low ints dusk-0400Z‡; to increase ints and ACTIVATE after

0400Z±—CTAF, ACTIVATE REIL Rwy 04 and PAPI Rwy 17 and Rwy 35 and Rwv 22 and Rwv 04-CTAF. WEATHER DATA SOURCES: AWOS-3 119.675 (734) 692-9686

COMMUNICATIONS: CTAF/UNICOM 123.0 CARLETON RCO 122.1R 115.7T (LANSING RADIO)

R DETROIT APP/DEP CON 134.3 GCO 121.725 (DETROIT CLNC and

LANSING ESS RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

CARLETON (H) VORTAC 115.7 CRL Chan 104 N42°02.88' W83°27.45'

5 NW

NDB (MHW) 419 RYS N42°06.07' W83°09.18' at fld. NOTAM FILE ONZ.

UTC-5(-4DT)

DFXTFR CACKLEBERRY (2E8)

NOTAM FILE LAN

RWY 06-24: 2113X100 (TURF)

RWY 06: Thid dspicd 315'. Trees. RWY 24: Thid dsplcd 300'. Tree.

TPA-1548(800)

AIRPORT REMARKS: Attended irregularly. Snow removal limited, check rwy condition prior to use winter months. Rwy

06-24 marked with cones; dsplcd thids marked with two cones each side. Rwy 06-24 NSTD LIRL due to color and configuration; not for public use.

NOTAM FILE LAN

N42°25.50′ W83°52.16′

N41°59.58' W86°07.70'

COMMUNICATIONS: CTAF 122.9

DOUBLE JJ RESORT RANCH (See ROTHBURY)

FUEL 100LL

DOWAGIAC MUNI (C91) 1 NW UTC-5(-4DT)

RWY 09-27: H4700X100 (ASPH) S-30, D-60 MIRI

RWY 09: REIL. VASI(V4L)—GA 3.0° TCH 35'. Trees. RWY 27: REIL. PAPI(P4L)-GA 3.0° TCH 35'. Trees. Rgt tfc.

RWY 04-22: 2176X100 (TURF)

RWY 04: Trees. RWY 22: Thid dsplcd 388', Tree, Rgt tfc.

AIRPORT REMARKS: Attended 1300Z‡-dusk. Self svc fuel avbl 24 hrs. Numerous ultralights and acft with no radio on and invof arpt.

Deer on and invof arpt. Model radio ctl acft opr E side of Rwy 04-22. ACTIVATE MIRL Rwy 09-27; VASI Rwy 09 and PAPI Rwy 27; and REIL Rwys 09 and 27-122.8. Rwy 04-22 and dspl thid marked with 3' yellow cones.

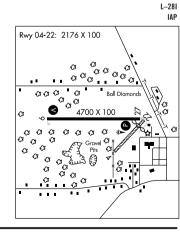
COMMUNICATIONS: CTAF/UNICOM 122.8 KEELER RCO 122.1R116.6T (LANSING RADIO)

R SOUTH BEND APP/DEP CON 118.55 (Sun-Fri 1030-0500Z, Sat

1030-0445Z), other times ctc RCHICAGO CENTER APP/DEP CON RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

KEELER (L) VOR/DME 116.6 ELX Chan 113 N42°08.66' W86°07.36' 182° 9.1 NM to fld. 795/00E.

€3 080° 13.6 NM to fld. 629/3W.



DRUMMOND ISLAND (DRM) 1 SW UTC-5(-4DT) N46°00.56' W83°44.64' S4 FUEL 100LL, JET A, MOGAS OX 1, 3 LRA NOTAM FILE DRM 668 R

RWY 08-26: H4000X75 (ASPH) MIRL

RWY 08: PAPI(P2L)—GA 3.0° TCH 35'. Thid dspicd 650'. Trees.

RWY 26: PAPI(P2L)-GA 3.0° TCH 25'. Thid dsplcd 170'. Road. RWY 18-36: 2500X150 (TURF)

RWY 18: Trees RWY 36: Trees. AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z‡, Birds and deer invof arpt. Occasional golf carts and pedestrians crossing Rwy

08-26 due to golf course on both sides. Rwy 18-36 marked with 3' yellow cones. Rwy 18-36 center 20' portion of rwy from intersection Rwy 18-36 N to the hangar line is asph; remainder of

rwy turf. ACTIVATE MIRL Rwy 08-26 and PAPI Rwy 08 and 26-CTAF, Flight Notification Service (ADCUS) available. WEATHER DATA SOURCES: AWOS-3 118.325 (906) 493-6410.

COMMUNICATIONS: CTAF/UNICOM 122.8 R TORONTO CENTER APP/DEP CON 132.65

RADIO AIDS TO NAVIGATION: NOTAM FILE CIU. SAULT STE MARIE (H) VOR/DME 112.2 SSM

W84°18.89' 139° 33.9 NM to fld. 687/4W. DRM N46°00.44′ W83°44.53′ NDR (MHW) 218

FILE DRM. Unmonitored.

DUFORD FLD (See GENESSEE)

DIIPONT-I APFFR (See LAPEER)

EAST JORDAN CITY (Y94) 2 SE UTC-5(-4DT) N45°07.81' W85°06.40'

642 NOTAM FILE LAN

Chan 59

N46°24.73'

at fld. NOTAM

N44°18.77′ W83°25.34′

RWY 09-27: H3250X50 (ASPH) MIRL RWY 27: VASI(V2L)-GA 4.0° TCH 32'. Thid dspicd 125'. Road.

sand and bare spots. ACTIVATE MIRL Rwy 9-27 and VASI Rwy 27-122.8.

UTC-5(-4DT)

RWY 18-36: 1800X120 (TURF)

RWY 18: Trees. RWY 36: Trees.

IOSCO CO

AIRPORT REMARKS: Unattended. Birds and deer on and invof arpt. Rwy 18-36 CLOSED indef. 1670' MSL tower 3 NM

(6D9)

NE. Rwy 18-36 marked with 3' yellow cones. Rwy 18-36 surface rough with bare spots. N-S twy rough with

COMMUNICATIONS: CTAF 122.9

GAYLORD RCO 122.55 (LANSING RADIO) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

GAYLORD (L) VORW/DME 109.2 Chan 29 N45°00.75' W84°42.26' GLR

EAST TAWAS

3 NF 606 R **S4** FUEL 100LL NOTAM FILE LAN RWY 08-26: H4802X75 (ASPH) S-12 MIRL

RWY 08: REIL. PAPI(P2L)-GA 3.0° TCH 33'. Tree. RWY 26: REIL, PAPI(P2L)-GA 3.0° TCH 33', Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡, Sundays on call

989-362-4515. For airframe repairs call 989-362-4515. Parachute Jumping. Numerous deer on and invof arpt. ACTIVATE

COMMUNICATIONS: CTAF/UNICOM 122.8 R MINNEAPOLIS CENTER APP/DEP CON 125.475

MIRL Rwy 08-26-122.85.

RADIO AIDS TO NAVIGATION: NOTAM FILE OSC.

ASP AU SABLE (H) VORW/DME 116.1

Chan 108 W83°23.66' 195° 8.3 NM to fld. 625/7W.

Rwv 18-36: 2500 X 150 €3 a a n n Residential & & ß €3 €3 Area (3 63 ß ദേദ **43** n 43 €3 €3 a n €3 a €3 3 ß Coll ß n Course €3 G C3 Course ঞ Œ ß Ø a €3 n a N 43

GREEN BAY

I-31B

LAKE HURON

I_31C

IAP

LAKE HURON L-31C

IAP

C3_{C3} 13 **3 (3** æ €3 **43** 43 €3 (3 Ø Œ Ø €3 Ø Ø 3 æ 4802 X 75 (3 G G ø C3 æ a 03 €3 ଫଣ Ø Ø **3** 3 æ 33 €3 €3 **(3** €3 Ø 0 Ø C3_{C3} €3 €3 €3 G G Œ €3 €3 ¢ ß a €3

299° 18.5 NM to fld. 1318/4W.

MICHIGAN 149 FASTPORT TORCHPORT GREEN RAY (59M) 3 S UTC-5(-4DT) N45°03.35′ W85°21.36′ NOTAM FILE LAN RWY 09-27: 3300X100 (TURF) RWY NO. Road RWY 27: Thid dspicd 1200'. Trees. RWY 04-22: 2600X100 (TURF) PWV MA. Traa RWY 22: Thid dspicd 600'. Road. AIRPORT REMARKS: Unattended. No snow removal; 110 V outlets for ski equipped acft. Rwy 09-27 and Rwy 04-22 dsplcd thids marked with cones. Rwv 09 uneven rolling terrain. COMMUNICATIONS: CTAF: 122.9 FATON RAPIDS SKYWAY ESTATES N42°35.02′ W84°39.08′ (6ØG) 4 N UTC-5(-4DT) DETROIT NOTAM FILE LAN L-28J RWY 08-26: 2653X100 (TURF) MIRI IAP

RWY 08: Thid dsplcd 685', Trees. RWY 26: Thid dspicd 200'. Trees. AIRPORT REMARKS: Unattended. Verify arpt condition during winter and spring: call 517-663-2471. Aerobatic box N of Rwy 08-26. Aerobatic practice area in 3 NM radius of arpt during dalgt hrs; 1500' AGL to 6000' MSL. Check with Lansing twr. Rwy 26 also, apch ratio 12:1 over 28' tree, 345' distance, 15' left. ACTIVATE **C3** MIRL Rwy 08-26-CTAF. Rwy 08-26 and dsplcd thids marked with €3 **(3** 3' vellow cones, NOTE: See Special Notices—Aerobatic Practice G G ß Area æ COMMUNICATIONS: CTAF 122.9 n LANSING APP/DEP CON 118.65 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. LANSING (L) VORTACW 110.8 LAN Chan 45 N42°43.04' W84°41.85' 171° 8.3 NM to fld. 887/5W.

FIK RAPIDS YUBA (34U) 4 S UTC-5(-4DT) N44°50.33′ W85°25.87′

EDWARD F JOHNSON

NOTAM FILE LAN

RWY 18-36: 2975X100 (TURF)

RWY 18: Trees RWY 36: P-line

down from S to N

AIRPORT REMARKS: Unattended. Arpt CLOSED Nov thru Apr. Deer and birds invof arpt. Rwy rough, uneven, rolling,

grass may not be mowed. Trucks parked on rwy edge south end. Orchard/crops both sides of rwy. Rwy slopes

(See ISHPEMING)

COMMUNICATIONS: CTAF 122.9

ELWELL

(68R) 3 W UTC-5(-4DT) N43°23.97' W84°48.05' NOTAM FILE LAN 825 \$4 RWY 09-27: 2580X100 (TURF)

RWY 09: Thid dspicd 1180'. Pole. Rwy 27: Trees. AIRPORT REMARKS: Attended continuously. Rwy 09-27 rolling terrain. Rwy 09-27 and dsplcd thids marked with 3' yellow cones. NSTD rwy lighting, for local use only.

COMMUNICATIONS: CTAF 122.9

RWY 18: Thid dsplcd 700'. P-line.

yellow cones. COMMUNICATIONS: CTAF 122.9

EMMETT SHARPE'S STRIP (2E2) 2 N UTC-5(-4DT) N42°57.10′ W82°46.56′ NOTAM FILE LAN RWY 18-36: 2700X90 (TURF)

Rwy 36: Trees.

AIRPORT REMARKS: Attended irregularly. Deer and turkeys invof arpt. Rwy 18 and Rwy 36 and dsplcd thid marked with

GREEN BAY

DETROIT

DETROIT

UTC-5(-4DT) 9/1 NOTAM FILE LAN RWY 17-35: H2600X50 (ASPH) S-12.5 LIRI

RWY 27: Thid dspicd 280'. Road.

RWY 35: Thid dspicd 182'. Trees.

N44°47.25′ W86°00.26′

RWY 09: Thid dspicd 200'. Trees. AIRPORT REMARKS: Unattended, Rwy 09-27 CLOSED Dec thru Mar and when snow covered, no snow removal,

Ultralight and radio control activity on and invof arpt. Rwy 17-35 loose stones on rwy. Rwy 09-27 uneven rolling

terrain. Campground adjacent to arpt; call 231-326-5285. Rwy 09-27 and dsplcd thids marked with 3' yellow cones. Rwy 35 windsock 110' E of rwy centerline. LIRL Rwy 17-35 inoperative Nov-May. ACTIVATE LIRL Rwy 17-35 Jun-Oct-CTAF. COMMUNICATIONS: CTAF 122.9

1 SW UTC-5(-4DT) N41°46.96' W83°31.07'

(Y87) 3 SE

RWY 09-27: 2275X150 (TURF)

RWY 17: Thid dsplcd 718'. Trees.

ERIE AERODROME

EMPIRE

(M84)

605 NOTAM FILE LAN

RWY 18-36: 2670X80 (TURF) RWY 36: Thid dspicd 760, P-line.

AIRPORT REMARKS: Unattended. -5' ditch N of Rwy 18: 55' left and right of centerline. Rwy 36, +34' power line 50'

distance, marked with orange balls. Rwy 18 and Rwy 36 thlds and Rwy 36 dsplcd thld marked with 3' cones. COMMUNICATIONS: CTAF 122.9

(I) VORW/DMF 110 8 FSC

(FSC)

S2

RWY 09: MALSR. Trees.

ESCANABA DELTA CO

RCO 122.3 (GREEN BAY RADIO)

ESCANABA N45°43.36′ W87°05.38′

FUEL 100LL, JET A

Chan 45

NOTAM FILE ESC. at Delta Co. 594/00E.

Class I, ARFF Index A

RAWIH

2 SW UTC-5(-4DT) N45°43.36′ W87°05.62′

RWY 09-27: H6498X150 (ASPH-PFC) S-80, D-120, 2S-152, 2D-210

087° 5.5 NM to fld.

NOTAM FILE ESC H-2K, L-31B 81 03 6498 X 150 0 0 ⁰ 0 0 0

3 G G G

at fld. 594/00E.

GREEN BAY

DETROIT

COPTER

GREEN BAY I-31B

GREEN BAY

IAP

€3

RWY 27: REIL, VASI(V4R)-GA 3.0° TCH 53', Trees. RWY 18-36: H5015X100 (ASPH-PFC) S-40, D-60 MIRL 0.3% up N RWY 18: PAPI(P4L)-GA 3.0° TCH 42'. Trees. RWY 36: REIL. PAPI(P4L) -GA 3.0° TCH 27'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION RWY NQ. TORA-6498 TODA-6498 ASDA-6498 LDA-6498

906-420-1591. Waterfowl and birds on and invof arpt. Deer on

and invof arpt. ACTIVATE HIRL Rwy 09-27; MIRL Rwy 18-36; PAPI

Rwys 18 and 36; REIL Rwy 36 and MALSR Rwy 09-CTAF. Fee for

RWY 18-TORA-5015 TODA-5015 ASDA-5015 LDA-5015 TORA-6498 TODA-6498 ASDA-6498 LDA-6498 RWY 27-TORA-5015 TODA-5015 ASDA-5015 LDA-5015 RWY 36-AIRPORT REMARKS: Attended 1100-0400Z‡. PPR other times call

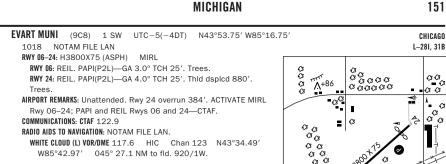
WEATHER DATA SOURCES: AWOS-3 121.425 (906) 786-9001. HIWAS 110.8 ESC. COMMUNICATIONS: CTAF/UNICOM 122.8 ESCANABA RCO 122.3 (GREEN BAY RADIO)

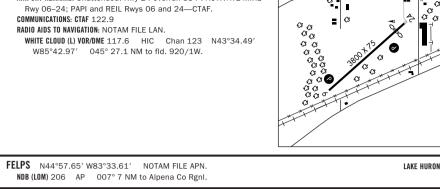
multi engine acft.

(R) MINNEAPOLIS CENTER APP/DEP CON 127.65 RADIO AIDS TO NAVIGATION: NOTAM FILE ESC. ESCANABA (L) VORW/DME 110.8 ESC Chan 45 N45°43.36′ W87°05.38′

PIKLE NDB (LOM) 344 ES N45°43.36′ W87°13.49′ ILS 109.3 I-ESC Rwy 09.

Class IE. LOM PIKLE NDB.





UTC-5(-4DT) N44°34.05′ W85°20.65′

FIELD OF DREAMS

(See HALE) 1 E

WATERWAY E-W: 5500X500 (WATER) SEAPLANE REMARKS: Unattended. Fuel avbl with 3 day prior notice, 231-313-6794. COMMUNICATIONS: CTAF 122.9

(M47)

FUEL 100LL, MOGAS

WATERWAY NW-SE: 6000X500 (WATER) WATERWAY N-S: 5500X500 (WATER)

FIFE LAKE SPB

FITCH H BEACH

NOTAM FILE FNT.

(See CHARLOTTE) FLINT N42°58.01′ W83°44.82′

(H) VORTACW 116.9 FNT Chan 116

NOTAM FILE LAN

at Bishop Intl. 772/6W.

VOR portion unusable byd 30 NM blo 3000'. DME unusable byd 30 NM blo 3000'. RCO 122.3 (LANSING RADIO)

H-10G, 11A, L-28J

DETROIT

GREEN BAY

FIINT

BISHOP INTL (FNT) 3 SW UTC-5(-4DT) N42°57.93′ W83°44.62′ B S4 FUEL 100LL, JET A TPA—See Remarks AOE Class I, ARFF Index B DETROIT

IAP. AD

Home Park

DETROIT

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€3 C3 Park

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36 Mobile

H-10G, 11A, L-28J

NOTAM FILE FNT RWY 18-36: H7848X150 (ASPH-PFC) S-100, D-169, 2S-175, 2D-270

RWY 18: VASI(V4L)—GA 3.0° TCH 41'. Thid dsplcd 200'. Tree.

RWY 36: VASI(V4L)-GA 3.0° TCH 54'. Tree.

RWY 09-27: H7200X150 (ASPH-PFC) S-100, D-169, 2S-175.

2D-235 HIRI

RWY 09: MALSR. Trees. RWY 27: MALSR, VASI(V4L)-GA 3.0°

TCH 56'. Trees. LAND AND HOLD SHORT OPERATIONS

LANDING HOLD SHORT POINT DIST AVBL RWY N9 18-36 4100

RWY 36 09-27 6300 RUNWAY DECLARED DISTANCE INFORMATION

RWY 18: TORA-7848 TODA-7848 ASDA-7848 LDA-7648 RWY 36: TORA-7848 TODA-7848 ASDA-7648 LDA-7648 AIRPORT REMARKS: Attended continuously. Birds and deer on and invof

arpt. TPA-1582(800) single-engine, 1982(1200) multi-engine acft. ACTIVATE MALSR Rwy 09-27-CTAF. Rwy Igts preset-no ints

change avbl when twr clsd. WEATHER DATA SOURCES: ASOS (810) 232-4477.

COMMUNICATIONS: CTAF 126.3 ATIS 133.15 UNICOM 122.95

FLINT RCO 122.3 (LANSING RADIO)

R FLINT APP CON 128.55 (N/W of active rwy) 118.8 (E/S of active rwy) 133.8 (1045-0430Z‡) CLEVELAND CENTER APP/DEP CON 126.75 (0430-1045Z‡)

FLINT TOWER 126.3 (1045-0430Z±) GND CON 121.9 CLNC DEL 121.75

AIRSPACE: CLASS C svc 1045-0430Z‡ ctc APP CON 128.55 (N/W of active rwy) 118.8 (E/S of active rwy) other times CLASS F RADIO AIDS TO NAVIGATION: NOTAM FILE FNT.

FLINT (H) VORTACW 116.9 FNT Chan 116 N42°58.01' W83°44.82' at fld. 772/6W.

PETLI NDB (LOM) 269 FN N42°58.09′ W83°53.41′ 097° 6.5 NM to fld.

I-FNT Rwy 09. LOM PETLI NDB.

ILS 109.9 I–TUN Rwy 27. Class IB. ASR (1045-0430Z±)

2 E UTC-5(-4DT)

COMM/NAV/WEATHER REMARKS: Emerg frequencies not avbl at twr. ILS Rwys 09, 27 and NDB unmonitored when twr clsd.

FIUSHING

N43°03.15′ W83°48.29′

B FUEL: 100LL NOTAM FILE LAN RWY 18-36: H2510X50 (ASPH) LIRI

RWY 18: Thid dsplcd 771'. Tree. RWY 36: Thid dspicd 771'. Trees.

RWY 09-27: 1633X130 (TURF)

RWY 27: Thid dsplcd 293', Road.

AIRPORT REMARKS: Attended irregularly. Fuel available by credit card. Rwy 09-27 CLOSED Oct through Mar. Rwy

09-27 CLOSED to transient acft permanently. Rwy 09-27 marked with 3' yellow cones. ACTIVATE LIRL Rwy 18-36-CTAF

COMMUNICATIONS: CTAF/UNICOM 122.8

FLYING-A-RANCH (See FRUITPORT)

FLYING M RANCH (See LINCOLN)

DALTON

(3DA)

FORD (See IRON MOUNTAIN/KINGSFORD)

DETROIT

COPTER

FNWIFRVIIIF MAPLE GROVE

RWY 09-27: 3050X110 (TURF) RWY 09: Thid dspicd 200'. Ground.

COMMUNICATIONS: CTAF 122.8

COMMUNICATIONS: CTAF 122.9 FRANKFORT DOW MEMORIAL FIELD

633 B FUEL 100LL

RWY 15-33: H4050X75 (ASPH) RWY 15: Thid dspicd 1094'. Road.

COMMUNICATIONS: CTAF/UNICOM 123.05

MANISTEE (L) VOR/DME 111.4

W86°15.24'

R MINNEAPOLIS CENTER APP/DEP CON 132.9

RADIO AIDS TO NAVIGATION: NOTAM FILE MBL.

COMM/NAV/WEATHER REMARKS: AWOS-3 wind unreliable.

NOTAM FILE LAN RWY 09-27: 2530X100 (TURF) RWY 09: Thid dspicd 400'. Road.

WM "TINY" ZEHNDER FLD

FRANKENMUTH

645

RWY 18-36: 2000X113 (TURF) RWY 36: Thid dspicd 275', Road.

AIRPORT REMARKS: Attended irregularly. Parachute Jumping. Maple Grove Arpt is collocated with Maple Grove Heliport, be alert for rotary wing acft. Extensive acft training, two-way radio communications rgr. ACTIVATE LIRL Rwy

UTC-5(-4DT)

LIRI

09-27-CTAF, Rwy 09-27 marked with 8 by 12 inch reflective cylinders and 3' cones; dsplcd thid marked with three 3' yellow cones. Rwy 09-27 and Rwy 18-36 and dsplcd thids marked with cones. COMMUNICATIONS: CTAF/UNICOM 122.8

MAPLE GROVE HELIPORT

RWY 18: Thid dsplcd 550', P-line.

FUEL 100LL NOTAM FILE LAN

3 N

(65G)

HELIPAD H1: H32X32 (TURF) HELIPAN H2: H12X12 (CONC)

(E66) 4 N UTC-5(-4DT) N42°43.03′ W84°03.72′ S4 NOTAM FILE LAN

HELIPAD H3: H20X20 (MATS) HELIPORT REMARKS: Attended 1400-2200Z‡. Maple Grove Heliport is collocated with Maple Grove Arpt, be alert for

(66G)

RWY 27: Thid dsplcd 300'. Road.

fixed wing acft. Extensive aircraft training, two-way communications required. Helipad H2 marked with cones. H1 gnd level helipad. H2 gnd level helipad. H3 raised level helipad. Max gross weight 3000 lbs. ACTIVATE H2 and H3 perimeter lgts and NSTD TRCV-123.025. H1, H2 and H3 FATO 70'x70'. Helipad H2 TRCV shines E.

2 SE UTC-5(-4DT) N43°18.84′ W83°42.58′

UTC-5(-4DT)

N44°37.51′ W86°12.05′

(3

Helipad H3 TRCV shine N. Helipad H1 perimeter lgts. Helipad H2 and Helipad H3 NSTD TRCV.

RWY 27: P-line. AIRPORT REMARKS: Attended irregularly. Snow removal intermittent; verify condition call 989-652-3652 or 989-652-9371. Rwy 09-27 soft in spring and after heavy rain. Rwy 09, 7' ditch 60' from thid. Rwy 09-27 marked with 3' yellow cones including Rwy 09 dsplcd thld. Rwy 09-27 LIRL not for public use.

2 SE

Chan 51 N44°16.24'

EC. 23 SEP 2010 to 18 NOV 2010

S-25 MIRL 0.7% up NW

(FKS)

NOTAM FILE LAN

RWY 33: REIL, PAPI(P2R)—GA 3.0° TCH 25', Thid dspicd 111'. AIRPORT REMARKS: Unattended. Fuel self-service with major credit card. Extensive soaring activity and glider towing ops W of rwy. Radio controlled model acft opr W of rwy. Deer and birds on and invof arpt. Arpt bcn located on hill 1.25 miles NW of arpt.

ACTIVATE MIRL Rwv 15-33: REIL Rwv 33: PAPI Rwv 33-CTAF.

GCO 121.725 (MINNEAPOLIS CENTER and FLIGHT SERVICES)

MBL

011° 21.4 NM to fld. 618/5W.

WEATHER DATA SOURCES: AWOS-3 118.325 (231) 352-7573.

N42°43.04′ W84°03.75′

DETROIT

GREEN BAY

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COPTER

FREMONT MUNI (FFX) 3 SW UTC-5(-4DT) N43°26.36' W85°59.69' CHICAGO B S4 FUEL 100LL, JET A NOTAM FILE LAN H-21 10F I-281 772 RWY 18-36: H6498X100 (ASPH) S-30 MIRL RWY 18: REIL. PAPI(P4L)-GA 3.0° TCH 25'. P-line. Rwy 9-27: 3502 X 75 RWY 36: REIL. VASI(V2L)-GA 3.0° TCH 45'. Tree. €3 ¢ RWY 09-27: H3502X75 (ASPH) S-16 MIRL **6** - II.. RWY 27: PAPI(P4L)-GA 3.7° TCH 25'. Trees. AIRPORT REMARKS: Attended 1300Z‡-dusk. For svc after hrs call 231-821-0494. Parachute Jumping. Skydiving activity summer months, weekends SR-SS, occasional weekdays noon-SS. Seaplane activity on adjacent lake .5 mile NE of arpt. Rwy 18-36 8 pavement cracking and loose stones on pavement. +8' crops *(*3 5498 X adjacent to rwys during growing season. PAPI Rwy 18 OTS indef. €3 ACTIVATE MIRL Rwy 09-27 and Rwy 18-36, REIL Rwy 18 and Rwy 36, VASI Rwy 36 and PAPI Rwy 18 and Rwy 27-CTAF. €3 WEATHER DATA SOURCES: AWOS-3 118.775 (231) 928-0715.

CLNC DEL 118.25

R MUSKEGON APP/DEP CON 119.8 (1100-0400Z‡) R CHICAGO CENTER APP/DEP CON 128.5 (0400-1100Z‡)

COMMUNICATIONS: CTAF/UNICOM 123.0

RADIO AIDS TO NAVIGATION: NOTAM FILE MKG. MUSKEGON (L) VORTACW 115.2 MKG Chan 99 N43°10.16' W86°02.36' 008° 16.3 NM to fld, 659/1W. HIWAS.

(39Z)

UTC-5(-4DT)TPA-1430(800) NOTAM FILE LAN

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FRUITPORT

FLYING-A-RANCH

RWY 09-27: 1925X70 (TURF) RWY 09: Thid dsplcd 327'. Trees. RWY 27: Trees. Rgt tfc.

AIRPORT REMARKS: Attended irregularly. Arpt is CLOSED Nov-Mar. No snow removal. Fuel avbl for emerg use only. Rwy

2 SE

COMMUNICATIONS: CTAF 122.9

09-27 and dsplcd thid marked with 3' yellow cones. Rwy 09-27 LIRL not for public use.

GALEY N47°06.94′ W88°24.07′

NOTAM FILE CMX.

NDB (MHW/LOM) 275 CM

313° 4.8 NM to Houghton Co Mem. Unmonitored.

GARLAND

(See LEWISTON)

GAVAGAN FLD (See YALE)

GAYLORD N45°00.75′ W84°42.26′

(L) VORW/DME 109.2 GLR Chan 29

at Gaylord Rgnl. 1318/4W. VOR portion unusable 182°-195°. DME unusable byd 30 NM blo 3500'. RCO 122.55 (LANSING RADIO)

NOTAM FILE LAN.

N43°06.30′ W86°07.42′ GREEN BAY L-14J

CHICAGO

LAKE HURON

L-31C

155

ΙΔΡ

LAKE HIIRON

H-2L, L-31C

MICHIGAN

N45°00.82' W84°42.22'

1328 B S4 FUEL 100LL, JET A NOTAM FILE GLR RWY 09-27: H6578X150 (ASPH) D-100, 2S-127

(GLR)

GAYLORD RGNL

RWY 09: MALSR. PAPI(P4L)-GA 3.0° TCH 25'. Trees. RWY 27: REIL. PAPI(P4L)-GA 3.0° TCH 25'. Trees.

RWY 18-36: H3319X75 (ASPH) S-12.5

1 SW UTC-5(-4DT)

RWY 18: PAPI(P4R)-GA 3.0° TCH 40'. Trees. RWY 36: PAPI(P4R)-GA 3.0° TCH 40'. Road.

AIRPORT REMARKS: Attended Mon-Fri 1200-0100Z‡, Sat-Sun 1300-0100Z‡. For attendant after hours call 989-732-4218 during attended hours. After hours call 989-370-9484 (manager

cell). Unattended Thanksgiving, Christmas and New Years Day.

Deer and birds on and invof arpt. Rwy 18-36 extensive cracking in

LOM BANGII NDB

Unmonitored

payement, Landing fee for turbines, jets and twins, Landing fee waived with minimum fuel purchase. Overnight parking fee. Military training activity invof arpt associated with Restricted Area R4201A/B. ACTIVATE HIRL Rwy 09-27 and MIRL Rwy 18-36; REIL Rwy 27 and MALSR Rwy 09-CTAF. WEATHER DATA SOURCES: ASOS 118,375 (989) 732-1571.

COMMUNICATIONS: CTAF/UNICOM 122.8 GAYLORD RCO 122.55 (LANSING RADIO) (R) MINNEAPOLIS CENTER APP/DEP CON 134.6

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

GAYLORD (L) VORW/DME 109.2

BANGU NDB (LOM) 375 GL N45°00.88' W84°48.48' 097° 4.4 NM to fld. I_GLR Rwy 09 Class IF

UTC-5(-4DT)

11 SW

LAKES OF THE NORTH (4Y4)

1286 B NOTAM FILE LAN

RWY 05-23: H4285X40 (ASPH)

RWY 05: Thid dspicd 400', Road.

RWY 23: Thid dspicd 450', Road. AIRPORT REMARKS: Attended 1400-2200Z‡, Sat 1400-1800Z‡. Deer

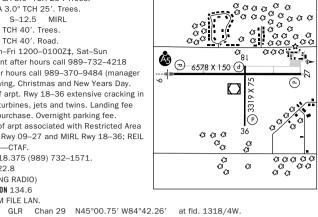
on and invof arpt. Rwy 05-23 sfc rough and uneven, extensive cracks in payement, Rwy slopes upward from E to W. West end

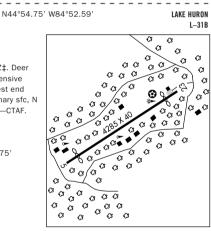
approximately 20' higher than E end. Acft parking in primary sfc, N

side, E end. ACTIVATE arpt beacon and LIRL Rwy 05-23-CTAF. COMMUNICATIONS: CTAF 122.9

GAYLORD RCO 122.55 (LANSING RADIO) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

GAYLORD (L) VORW/DME 109.2 GLR Chan 29 N45°00.75' W84°42.26' 237° 9.5 NM to fld. 1318/4W.





GENESEE DUFORD FLD (68G)

RWY 18-36: 3068X100 (TURF) RWY 18: Thid dspicd 200'. Trees.

AIRPORT REMARKS: Attended irregularly. Rwy 18–36 sfc rough with irregular mowing. Rwy 18–36 marked with 3' yellow

NOTAM FILE LAN

cones COMMUNICATIONS: CTAF 122.9

GERALD R FORD INTL (See GRAND RAPIDS)

GIPPER N41°46.12′ W86°19.11′. NOTAM FILE LAN. (H) VORTACW 115.4 GIJ Chan 101 179° 3.6 NM to South Bend Rgnl.

804/0E. HIWAS.

CHICAGO H-5E, 10F, L-28I

DETROIT

VOR portion unusable 199°-219° blo 17,500' and between 25 and 36 NM.

RWY 36: Thid dspicd 1020'. Tree.

1 NW UTC-5(-4DT) N43°07.50′ W83°37.58′

GLADWIN ZETTEL MEML (GDW) 1 SE UTC-5(-4DT)N43°58.24′ W84°28.50′ B FUEL 100LL, JET A TPA-1776(1000) NOTAM FILE LAN 776

RWY 09-27: H4700X75 (ASPH) S-44, D-60, 2D-90 MIRI

RWY 09: REIL. PAPI(P2L)-GA 3.0°. Trees.

RWY 27: REIL. PAPI(P2L). Trees.

RWY 15-33: 2500X150 (TURF) RWY 15: Trees. RWY 33: Trees.

AIRPORT REMARKS: Attended 1400-2200Z‡. Except Christmas; New Years; Thanksgiving and Easter; for attendant and after hrs call 989-578-2174. Rwy 15-33 CLOSED when snow covered except

ski-equipped acft. Rwy 15-33 marked with 3' yellow cones. Deer

activity on and invof arpt. Radio Control acft ops near W side of Rwv 15-33. ACTIVATE MIRL Rwv 09-27: PAPI and REIL Rwv 09 and Rwv 27-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8 R SAGINAW APP/DEP CON 126.45 (1100-0400Z‡) CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE MBS.

SAGINAW (L) VORW/DME 112.9 MBS Chan 76 N43°31.90' W84°04.64' 330° 31.5 NM to fld. 663/3W. HIWAS.

WIGGINS NDB (MHW) 209 GDW N43°58.20′ W84°28.50′

NOTAM FILE LAN

GLOWACKI (See ST JOHNS)

GOGERIC-IRON CO (See IRONWOOD)

GRADOLPH FLD (See PETERSBURG)

GRAND HAVEN MEML AIRPARK (3GM) 2 SE UTC-5(-4DT) N43°02.04′ W86°11.89′

S4 FUEL 100LL NOTAM FILE LAN

RWY 09-27: H3752X75 (ASPH) S-8 MIRL 0.3% un W RWY 09: REIL. PAPI(P2L)-GA 3.0° TCH 32'. Tree.

RWY 27: REIL. PAPI(P2L)-GA 4.0° TCH 54'. Trees.

RWY 18-36: H2058X60 (ASPH) S-8 MIRL 0.3 up N RWY 36: Tree.

AIRPORT REMARKS: Attended 1300Z‡-dusk. Radio control acft flying

area NW side of Rwv 18, ACTIVATE MIRL Rwvs 09-27 and 18-36: REIL and PAPI Rwys 09 and 27-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

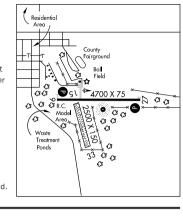
R MUSKEGON APP/DEP CON 119.8 (1100-0400Z‡)

(R) CHICAGO CENTER APP/DEP CON 128.5 (0400-1100Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE MKG.

MUSKEGON (L) VORTACW 115.2 MKG Chan 99 N43°10.16'

W86°02.36' 222° 10.7 NM to fld. 659/1W. HIWAS.

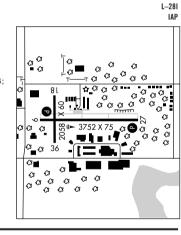


DETROIT

IAP

L-28J. 31C

CHICAGO



Rwy 18-36: 2580 X 120

P (ARNG) 2 N UTC-5(-4DT) N42°46.45′ W84°43.99′

NOTAM FILE LAN

DETROIT

IAP. DIAP

L-28J

GRAND IFDGE ABRAMS MUNI

RWY 09-27: H3200X75 (ASPH) MIRL 0.3% up E RWY 09: PAPI(P4L)-GA 3.0° TCH 25'. Tree.

B S4 FUEL 100LL TPA-See Remarks

(4DØ)

RWY 27: REIL. PAPI(P2L)-GA 4.0° TCH 25'. Tree.

RWY 18-36: 2580X120 (TURF)

RWY 18: Thid dspicd 400'. Trees.

RWY 36: Thid dspicd 397', Road.

MILITARY SERVICE: FUEL 100LL, J4. PPR, ctc OPS DSN 623-0671/2/3. C517-483-5671/2/3.

AIRPORT REMARKS: Attended 1300Z±-dusk, Rwv 18-36 CLOSED to

fixed wing acft Nov-Apr, soft in spring. Intensive National Guard helicopter training on and invof arpt. No fixed wing and limited rotary parking on national guard ramp. Rwy 18-36 and dsplcd thld

marked with 3' yellow cones. Rwy 36 dsplcd thld marked with 3 vellow cones. Exit Rwy 18-36 only at twys. TPA-For helicopters. 1700 (858) fixed wing TPA-1900(1058), ACTIVATE MIRL Rwv 09-27; REIL Rwy 27-CTAF.

MILITARY REMARKS: CAUTION Avoid over flight of Grand Ledge blo 2000'. Night training conducted using night vision devices.

COMMUNICATIONS: CTAF/UNICOM 122.7 R LANSING APP/DEP CON 118.65 226.4 ARNG OPS 41.85 122.7 241.0

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. LANSING (L) VORTACW 110.8 IΔN

GRAND MARAIS (Y98) 3 SE UTC-5(-4DT) NOTAM FILE GRB

RWY 14-32: 2800X100 (TURF)

RWY 14. Trees RWY 32: Trees. RWY 05-23: 2600X150 (TURF)

RWY 05: Trees. RWY 23: Trees.

AIRPORT REMARKS: Unattended. Arpt CLOSED Oct 15-May 15. Rwys not plowed winters. Rwy 05-23 marked with 3'

yellow cones. Rwy 14-32 marked with 3' yellow cones. Rwy 05-23 and Rwy 14-32 surface rough. COMMUNICATIONS: CTAF/UNICOM 122.7

NOTAM FILE GRR (H) VOR/DME 115.95 GRR Chan 106(Y) 353° 5.8 NM to Gerald R Ford Intl. 803/4W.

GRAND RAPIDS N42°47.20′ W85°29.82′.

DMF unmonitored

DME unusable byd 30 NM blo 3000'.

RCO 122.25 (LANSING RADIO)

National Guard Area 24 Chan 45 N42°43.04′ W84°41.85′ 340° 3.8 NM to fld. 887/5W.

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3200 X 75

EC. 23 SEP 2010 to 18 NOV 2010

N46°37.25′ W85°55.01′

H-5E, 10F, L-28I

GREEN BAY

CHICAGO

GRAND RAPIDS

GERALD R FORD INTL UTC-5(-4DT) N42°52.85′ W85°31.37′ (GRR) 6 SE

S4 FUEL 100LL, JET A OX 1. 3 LRA Class I. ARFF Index C NOTAM FILE GRR H-5E, 10F, L-28I RWY 08R-26L: H10000X150 (CONC-GRVD) D-190, 2D-350 HIRI

S-52, D-60

616-249-5380. Call prior to 2100Z‡ on preceding Friday for after hours service.

ATIS 127.1 616-336-4755

GRR

Class IB.

WEATHER DATA SOURCES: ASOS (616) 956-3224. WSP.

LDA-5000

LDA-8501

UNICOM 122.95

GND CON 121.8 CLNC DEL 119.3

Chan 106(Y) N42°47.20′ W85°29.82′

266° 6.4 NM to fld.

LOM KNOBS NDB. LOC unusable 25° right of course.

RWY 18R. MAISE

RWY 26L: MALSR. PAPI(P4L)-GA 3.0' TCH 73'. RWY 17-35: H8501X150 (CONC-GRVD) D-190, 2S-175, 2D-350

HIRI RWY 17: REIL, VASI(V4L)-GA 3.0° TCH 38'.

RWY 35: MALSR, PAPI(P4R)-GA 3.0' TCH 74'. RWY 08L-26R: H5000X100 (CONC-GRVD)

RWY 08L: REIL. VASI(V4L)-GA 3.0° TCH 33'. RWY 26R: REIL, VASI(V4L)-GA 3.0° TCH 33'. RUNWAY DECLARED DISTANCE INFORMATION

RWY 08L: TORA-5000 TODA-5000 ASDA-5000

RWY 08R: TORA-10000 TODA-10000 ASDA-10000 LDA-10000 RWY 17: TORA-8501 TODA-8501 ASDA-8501

RWY 26L: TORA-10000 TODA-10000 ASDA-10000 LDA-10000 RWY 26R: TORA-5000 TODA-5000 ASDA-5000 LDA-5000 RWY 35: TORA-8501 TODA-8501 ASDA-8501

AIRPORT REMARKS: Attended continuously, PPR for acft with 171'

wingspan or larger. Birds on and invof arpt. Noise abatement procedures: Rwy 08R depart on rwy heading until reaching the highway E of arpt; Rwy 26L on apch to arpt turn final at highway E of arpt. Rwy 08L-26R for apch Cat C acft,

wingspan must be less than 79'. Apch Cat D and E acft prohibited. Pushback advisories on the terminal ramp

are not provided by ATC. When twr closed ACTIVATE HIRL Rwy 08R-26L; Rwy 17-35; MIRL Rwys 08L-26R; VASI Rwy 08L; Rwy 17 and Rwy 26R; PAPI Rwy 26L and Rwy 35; REIL Rwy 08L; Rwy 17 and Rwy 26R and MALSR Rwy 08R; 26L and 35—CTAF. Twy F north of Twy V, Twy J btn Twy F and Twy J3 and Twy G clsd to acft over 100000 lbs: Twv F, south of Twv V and remaining sections of Twv J clsd to acft over 47000 lbs: Twv Y 400' north of Twv

D clsd to acft over 100,000 lbs; Twy R north of Twy D clsd to acft over 175000 lbs. Twy R north of Twy D, Twy Y north of Twy D, Twy Z north of Twy D and Twy N are non-movement areas. Rwy 08R and 26L touchdown and rollout runway visual range avbl. Rwy 35 touchdown runway visual range avbl. Snow removal personnel will monitor CTAF when twr is clsd. LRA: Mon-Fri 2 hours PPR for customs call 616-942-5245, pager

COMMUNICATIONS: CTAF 135.65 GRAND RAPIDS RCO 122.25 (LANSING RADIO) R GRAND RAPIDS APP/DEP CON 124.6 (North) 128.4 (South) (1030-0500Z‡)

R CHICAGO CENTER APP/DEP CON 128.4 (0500-1030Z‡) GRAND RAPIDS TOWER 135.65 (1030-0500Z‡)

AIRSPACE: CLASS C svc 1030-0500Z± ctc APP CON other times CLASS E. RADIO AIDS TO NAVIGATION: NOTAM FILE GRR.

GRAND RAPIDS (H) VOR/DME 115.95 803/4W DMF unmonitored KNOBS NDB (LOM) 263 GR N42°53.74′ W85°22.71′

ILS 109.7

Unmonitored when twr clsd. ILS 108.3 **IIS 111 9**

ASR (1030-0500Z‡) GRANT

815

CHICAGO

CHICAGO

IAP. AD

35

353° 5 8 NM to fld

Rwy 08L-26R: 5000 X 100

N43°20.50' W85°46.50'

RWY 27: Thid dsplcd 580'. Trees.

Unmonitored when twr clsd.

ILS unmonitored when twr clsd.

2 NE UTC-5(-4DT)NOTAM FILE LAN

Rwy 26L.

Rwy 08R.

Rwy 35.

RWY 09-27: 2517X120 (TURF) LIRL

I-GRR

I-CYZ

I-DVS

RWY 09: Thid dspicd 387'. Trees.

AIRPORT REMARKS: Attended irregularly. 100LL fuel avbl for emergencies only. Rwy 09-27 and dsplcd thids marked with 3' vellow cones, Arpt lgts opr dusk-0500Z±, ACTIVATE LIRL Rwy 09-27—CTAF,

COMMUNICATIONS: CTAF/UNICOM 122.8

GRATIOT COMMUNITY (See ALMA)

GRAYLING AAF (GOV)(KGOV) CIV/MIL 1 NW UTC-5(-4DT) N44°40.82′ W84°43.73′ R TPA—See Remarks NOTAM FILE GOV 1158

RWY 05-23: H5000X150 (CONC) D-12 PCN 10 R/C/W/T MIRI

LAKE HIIRON H-2L. L-31C IAP. AD

CHICAGO

L-281

RWY 05: REIL. PAPI(P4L)-GA 4.0° TCH 41'. Trees.

RWY 23: REIL. PAPI(P4L)-GA 3.0° TCH 30'. Trees.

RWY 14-32: H5000X150 (ASPH) S-35, D-45, 2D-80 PCN 65 F/B/W/T MIRL

RWY 14: REIL, PAPI(P4L)—GA 3.0° TCH 30', Tree.

RWY 32: REIL. PAPI(P4L)—GA 3.5° TCH 34'. Thid dsplcd 300'.

Trees

AIRPORT REMARKS: Attended dawn-dusk. Wildlife on and invof arpt. Extensive military helicopter tfc Jun thru Aug. ACTIVATE MIRL Rwy 14-32 and Rwy 05-23, REIL Rwy 05, Rwy 23, Rwy 14 and Rwy 32

and PAPI Rwv 05. Rwv 23. Rwv 14 and Rwv 32-CTAF, Rwv 05-23. Twy A, Twy D and Twy E CLOSED winter months, no snow removal. MILITARY REMARKS: TFC PAT-Rotary wing 2000(842), fixed wing

2200(1042). MISC Ctc Base OPS DSN 623-3301,

C989-344-4301 or C517-648-5339.

WEATHER DATA SOURCES: AWOS-3 119.075 (989) 348-3127. COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 132.9 338.3

TOWER 126.2 241.0 (by NOTAM) GND CON 121.9

RADIO AIDS TO NAVIGATION: NOTAM FILE TVC.

TRAVERSE CITY (H) VORTACW 114.6 TVC Chan 93 N44°40.07′ W85°33.00′ 091° 35.2 NM to fld. 912/2W. **RAWIH**

N44°40.90′ W84°43.74′. (T) VORW 109.8 CGG at fld. NOTAM FILE GOV. Unmonitored. NDB (MHW) 359 GYG N44°45.00′ W84°49.70′ 140° 6 NM to fld. NOTAM FILE GOV.

GREEN LAKE (See INTERLOCHEN)

GREENVILLE MUNI (6D6) 3 S UTC-5(-4DT) N43°08.53' W85°15.23'

S4 FUEL 100LL NOTAM FILE LAN 0.4% up W

RWY 10-28: H4199X75 (ASPH) S-23 MIRL RWY 10: PAPI(P4L)-GA 3.5° TCH 27'. Trees.

RWY 28: REIL, PAPI(P4L)-GA 3.0° TCH 32', Trees.

RWY 18-36: 1730X200 (TURF)

RWY 18: Trees. RWY 36: Thid dsplcd 378'. Trees.

AIRPORT REMARKS: Attended Apr-Oct 1300-2200Z‡, Nov-Mar 1300-0000Z‡. Deer on and invof arpt. Snow removal Rwy 10-28

only. Rwy 18-36 no plowing, verify conditions prior to landing. Rwy 18-36 and dsplcd thid marked with 3' yellow cones. ACTIVATE MIRL Rwy 10-28-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) GRAND RAPIDS APP/DEP CON 124.6 (1030-0500Z±)

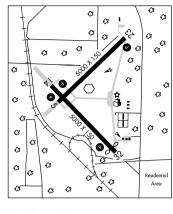
(R) CHICAGO CENTER/APP DEP CON 124.6 (0500-1030Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE GRR.

GRAND RAPIDS (H) VOR/DME 115.95 GRR

106(Y) N42°47.20′ W85°29.82′ 031° 23.9 NM to fld.

803/4W. DME unmonitored.



160	MICHIGAN	
GRE	GORY RICHMOND FLD (69G) 2 SE UTC-5(-4DT) N42°26.50′ W84°04.00′ 921 NOTAM FILE LAN RWY 18-36: 2471X100 (TURF) RWY 18: Thid dspicd 800′. P-line. RWY 36: Trees. AIRPORT REMARKS: Attended Apr-Nov, Wed, irregularly, Apr-Nov Sat-Sun dalgt hrs. Extensive glider ops on and arpt. Rwy not plowed winters. Gliders also use the turf area W of Rwy 18-36. Rwy 18-36 marked with 2′ Rwy 18 dspicd thid marked with 2′ cones. COMMUNICATIONS: CTAF 122.9 COMM/NAV/WEATHER REMARKS: Glider frequency 123.5.	
	GROSS (See PINCONNING)	
	GROSSE ILE MUNI (See DETROIT/GROSSE ILE)	
	WENN N44°44.07′ W85°25.76′ NOTAM FILE TVC. NDB (MH/LDM) 365 TV 279° 6.6 NM to Cherry Capital. Unmonitored when twr clsd.	REEN BAY L-31B
HAL	TITLE OF BRIDE	in Pike in Rwy
	HAMP (See ELWELL)	
		REEN BAY -2K, L-14J

HANCUCK

HOUGHTON CO MEM (CMX) 4 NE UTC-5(-4DT) N47°10.11′ W88°29.34′ B S4 FUEL 100LL, JET A. Class I, ARFF Index A. NOTAM FILE CMX

GREEN RAY H-2K, L-14J

LAKE HIIRON

L-31B

IAP

RWY 13-31: H6501X150 (ASPH-GRVD) S-70, D-100, 2S-127, 2D-185 0.5% up NW

RWY 13: REIL. PAPI(P4L)-GA 3.0° TCH 44'. Trees.

MIDI

RWY 31: MALSR, PAPI(P4L)-GA 3.0° TCH 45'.

RWY 07-25: H5196X100 (ASPH-PFC) S-35, D-50

0.3% up NE RWY 07: REIL. PAPI(P2L)-GA 3.0° TCH 30'. Trees.

RWY 25: REIL. PAPI(P4L)-GA 3.0° TCH 41'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 07: TORA-5196 TODA-5196 ASDA-5196 LDA-5196

PWV 13. TORA-6501 TODA-6501 ASDA-6501 LDA-6501

RWY 25: TORA-5196 TODA-5196 ASDA-5196 LDA-5196 **PWV 31.** TORA-6501 TODA-6501 ASDA-6501 LDA-6501 AIRPORT REMARKS: Attended 0900-0500Z‡. PAEW on arpt monitor CTAF. Frequent snow removal ops in progress various times

Nov-Apr monitor CTAF, Airframe and power plant repairs avbl Apr 15 thru Nov 15. Arpt CLOSED to unscheduled air carrier opns with more than 30 passenger seats except PPR call arpt manager

906-482-3970. Deer and gulls on and invof arpt. General aviation acft parking permitted in front of air carrier terminal building. Contact Unicom for permission to park in front of

terminal, General aviation acft parking on aprons lctd N and S of terminal building, Arpt has dual PCL, ACTIVATE HIRL Rwy 13-31, MIRL Rwy 07-25, PAPI Rwy 13, Rwy 31, Rwy 07, and Rwy 25, REIL Rwy 13, Rwy 07, and Rwy

25, MALSR Rwy 31 and Twy B-CTAF. Airfield guidance signs snow covered in winter. Ldg fee waived with fuel purchase for multi-engine acft only. WEATHER DATA SOURCES: ASOS 125.675 (906) 482-4248. HIWAS 112.8 CMX.

COMMUNICATIONS: CTAF/UNICOM 122.7

HANCOCK RCO 123.65 122.525 (GREEN BAY RADIO)

(R) MINNEAPOLIS CENTER APP/DEP CON 127.2

AIRSPACE: CLASS E svc continuous.

RADIO AIDS TO NAVIGATION: NOTAM FILE CMX.

(L) VORW/DME 112.8 CMX Chan 75 N47°10.22' W88°29.12' DME unusable 315°-035° bvd 30 NM blo 3500'.

(MGN)

GALEY NDB (MHW/LOM) 275 CM N47°06.94′ W88°24.07′ 313° 4.8 NM to fld. Unmonitored.

ILS/DME 110.3 I-CMX Chan 40 LOM GALEY NDB. LOC BC unusable byd 13° left Rwy 31. Class IT.

and right of course. LOC BC and BC DME unusable byd 10 NM blo 2600'.

N45°25.53' W84°54.80'

HANLEY FLD (See MUNISING)

HARBOR SPRINGS

3 E UTC-5(-4DT) FUEL 100LL, JET A NOTAM FILE MGN

RWY 10-28: H4157X75 (ASPH) S-22, D-30 RWY 10: PAPI(P4R)—GA 3.5° TCH 25. Thid dspicd 445'. Pole.

RWY 28: (NSTD) PAPI(P4L)—GA 4.0° TCH 35. Thid dspicd 445'.

AIRPORT REMARKS: Attended 1300-dusk. Parachute Jumping. Birds and

deer on and invof arpt. Rwy 28 +46' antenna 186' from dsplcd thld 234' right. Noise abatement procedures; no turbojet/turbofan acft departures from 0400 to 1200Z‡, no low flight over surrounding community, all acft departing to the W turn S over the water as soon as practical. ACTIVATE MIRL Rwy 10-28-CTAF.

Lgts extinguish with 3 clicks during daytime ops. Landing fee waived with minimum fuel purchase.

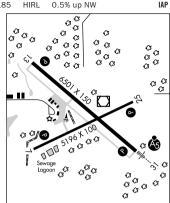
WEATHER DATA SOURCES: AWOS-3 119.925 (231) 347-5231. COMMUNICATIONS: CTAF/UNICOM 122.8

(R) MINNEAPOLIS CENTER APP/DEP CON 134.6

RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84' W84°39.85' 227° 16.2 NM to fld. 840/6W.

COMM/NAV/WEATHER REMARKS: AWOS-3 Wind unreliable btn 260°-280°.



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at fld. 1072/2W. HIWAS.

MICHIGAN HARRIFTTA BUNCH'S HALF ACRE (4Y9) 3 W UTC-5(-4DT) N44°18.50′ W85°46.34′ 1010 NOTAM FILE LAN

RWY 26. Trees

RWY 08-26: 2400X100 (TURF) RWY NR. Trees

(8ØD)

RWY 18-36: H2978X50 (ASPH) RWY 18: Thid dsplcd 473'. Trees.

RWY 09-27: 2437X100 (TURF) RWY 09: Thid dspicd 1218'. Trees.

COMMUNICATIONS: CTAF/UNICOM 122.8

(5YØ)

Rwy 08-26 rough and uneven. COMMUNICATIONS: CTAF 122.9

NOTAM FILE LAN

NOTAM FILE LAN RWY 03-21: 2140X60 (TURF) RWY 03: Thid dspicd 1000'. Trees. RWY 21: Thid dspicd 600'. Trees.

AIRPORT REMARKS: Unattended. Deer and turkeys occasionally on rwy. +15-45' trees in primary sfc east side 30' from Rwy 03-21 centerline. Rwy 03-21 and dsplcd thlds marked with 3' yellow cones. COMMUNICATIONS: CTAF 122.9

HARSENS ISLAND 578

HARRISVILLE

162

HARRISON CLARE CO

NOTAM FILE LAN RWY 04-22: 2225X100 (TURF) RWY 04: Thid dspicd 371'. Brush. AIRPORT REMARKS: Unattended. CAUTION: For ops during high water and wet spring condition. No snow removal. Avoid

(792)

thids marked with cones. COMMUNICATIONS: CTAF 122.9

> RWY 15-33: 2240X100 (TURF) RWY 15: Thid dspled 375', Road.

COMMUNICATIONS: CTAF/UNICOM 122.7 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. WHITECLOUD VOR/DME 117.6 HIC

OCEANA CO (CØ4) 4 SE FUEL 100LL TPA-1710(800) NOTAM FILE LAN

RWY 09-27: H3500X75 (ASPH) S-12.5

RWY 09: PAPI(P2L)-GA 4.0° TCH 25'. Road.

09-27 and PAPI Rwy 09 and Rwy 27-CTAF. WEATHER DATA SOURCES: AWOS-A 122.7 (231) 861-7415.

flt over state wildlife refuge areas S and W of arpt. Rwy 04-22 surface rough. Rwy 04 defined by mowing, dsplcd HART/SHELBY UTC-5(-4DT) N43°38.51' W86°19.78'

ØN UTC-5(-4DT) N42°35.37′ W82°34.54′ RWY 22: Thid dspicd 230'. Road.

MIRL

Chan 123

EC. 23 SEP 2010 to 18 NOV 2010

RWY 33: Thid dspicd 564'. Trees. AIRPORT REMARKS: Attended irregularly. Fuel 24 hr self serve. Rwy 15-33 rough and soft when wet. Radio controlled model acft ops on field occasionally. Rwy 15-33 dsplcd thld marked with 3' yellow cones. ACTIVATE MIRL Rwy

N43°34.49′ W 85°42.97′

2 NW UTC-5(-4DT) N44°03.17' W84°48.75'

LIRL (NSTD)

1 NW UTC-5(-4DT) N44°40.09' W83°18.31'

arpt. Rwy 09-27 surface rough. Rwy 18-36 NSTD LIRL 30' from rwy edge and no rwy end Igts. ACTIVATE lgts-122.8. 3 times on. Rwy 09-27 marked with 3' yellow cones.

AIRPORT REMARKS: Attended irregularly. Rwy 09-27 CLOSED winter months. Deer on and invof arpt. Rwy 27, 22' p-line, 308' distance, apch ratio 14:1, P-line marked with orange balls, Radio control model acft on and invof

LAKE HIIRON

DETROIT

CHICAGO

L-281

280° 27 NM to fld. 920/1W.

GREEN RAY

LAKE HURON

RWY 36: Thid dsplcd 1152'. Trees.

AIRPORT REMARKS: Attended irregularly, Arpt CLOSED when snow covered, Large depression NE of Rwy 26 end, Rwy 08-26 marked with 3' yellow cones. 50' trees both sides of Rwy 08-26 primary surface 100' fm rwy centerline.

RWY 27: Thid dspicd 882'. Trees.

RWY 27: PAPI(P2L)-GA 4.0° TCH 25'.

CHICAGO

1-281

IAP

MICHIGAN

HASTINGS (9D9) 3 W UTC-5(-4DT) N42°39.81′ W85°20.78′ 801 FIIFI 100LL TPA-1601(800) NOTAM FILE LAN B

RWY 12-30: H3900X75 (ASPH) S-20 MIRL RWY 12: REIL. PAPI(P4R)-GA 4.0°. TCH 25'. Trees. RWY 30: REIL, PAPI(P4L)-GA 4.0° TCH 25', Tree.

RWY 09-27: 2400X170 (TURF) RWY 09: Thid dsplcd 185'. Trees.

RWY 27: Thid dsplcd 393'. Trees. RWY 18-36: 1962X200 (TURF)

RWY 18: Trees. RWY 36: Tree.

AIRPORT REMARKS: Attended irregularly. Birds on and invof arpt. ACTIVATE MIRL Rwy 12-30; REILS Rwy 12 and Rwy 30 and PAPI

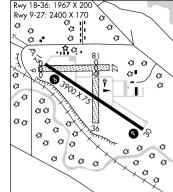
Rwv 12 and Rwv 30-CTAF, Rwv 09-27 and Rwv 18-36 marked with vellow cones. COMMUNICATIONS: CTAF/UNICOM 123.075.

R GRAND RAPIDS APP/DEP CON 128.4 (1030-0500Z‡)

(R) CHICAGO CENTER APP/DEP CON 128.5 (0500-1030Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE GRR. GRAND RAPIDS (H) VOR/DME 115.95 GRR

Chan 142° 10 NM to fld.

106(Y) N42°47.20′ W 85°29.82′ 803/4W. DME unmonitored.



HAT FIELD (See NUNICA)

COMMUNICATIONS: CTAF 122.9

HELIPAD H1: H18X18(CONC)

HESSEL

ALBERT J. LINDBERG (5Y1) 2 N UTC-5(-4DT) N46°02.15' W84°25.19' 760 B NOTAM FILE GRB

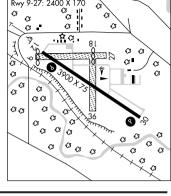
RWY 09-27: H3700X60 (ASPH) MIRI

RWY 09: PAPI(P2L)—GA 4.0° TCH 40'. Thid dspicd 200'. Trees. RWY 27: PAPI(P2L)-3.5° TCH 25'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2200Z‡. Arpt manager after hour 1-906-298-0566. ACTIVATE MIRL Rwy 09-27 and PAPI Rwys 09 and 27-CTAF.

RADIO AIDS TO NAVIGATION: NOTAM FILE PLN. PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84'

W84°39.85' 029° 26.4 NM to fld. 840/6W. HIWAS.



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PONDEROSA HELIPORT (13D) 2W UTC-5(4DT) N42°37.75′ W83°40.99′ NOTAM FILE LAN

DETROIT COPTER

LAKE HURON

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3 **(3** L-31B

HELIPORT REMARKS: Unattended, Helipad H1 perimeter lgts, ACTIVATE H1 perimeter lgts and VASI—123,025. COMMUNICATIONS: CTAF 122.9



HILLMAN (Y95) 2 NW UTC-5(-4DT) N45°04.98' W83°56.04' NOTAM FILE LAN 850 RWY 04-22: H3400X60 (ASPH) MIRL

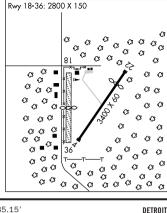
RWY 04: Trees. RWY 22: Thid dspicd 760'. Trees.

RWY 18-36: 2800X150 (TURF) RWY 18: Thid dsplcd 1400'. Trees. RWY 36: Tree.

AIRPORT REMARKS: Attended irregularly, Rwy 18-36 surface rough and moderately rolling, not mowed. Snow removal second priority, confirm arpt condition before arrival. Rwy 18-36 marked with 3'

yellow cones. ACTIVATE MIRL Rwy 04-22-CTAF. COMMUNICATIONS: CTAF 122.9 RADIO AIDS TO NAVIGATION: NOTAM FILE APN.

ALPENA (L) VORTAC 108.8 APN Chan 25 N45°04.97' W83°33.42' 277° 16.0 NM to fld. 677/7W. HIWAS.



LAKE HURON

I-31C

1182 B S4 FUEL 100LL, JET A NOTAM FILE JYM RWY 10-28: H4000X75 (ASPH) S-16 MIRL 0.5% up E RWY 28: REIL, PAPI(P4L)-GA 3.0° TCH 34', Trees.

(JYM)

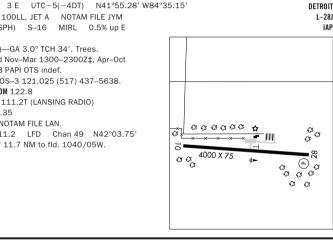
AIRPORT REMARKS: Attended Nov-Mar 1300-2300Z‡, Apr-Oct 1300-0200Z‡. Rwy 28 PAPI OTS indef. WEATHER DATA SOURCES: AWOS-3 121.025 (517) 437-5638.

COMMUNICATIONS: CTAF/UNICOM 122.8 LITCHFIELD RCO 122.1R. 111.2T (LANSING RADIO)

R TOLEDO APP/DEP CON 134.35 RADIO AIDS TO NAVIGATIONS: NOTAM FILE LAN.

LITCHFIELD (L) VOR/DME 111.2 LFD Chan 49 N42°03.75'

W84°45.91' 141° 11.7 NM to fld. 1040/05W.



HIRAM CURE (See SUNFIELD)

HOLLAND N42°47.79′ W86°09.45′.

HILLSDALE MUNI

HOFFMAN'S BLACK MOUNTAIN AERODROME (See Cheboygan)

NDB (MHW) 233 HLM at Park Township. NDB unusable byd 5.5 NM. CHICAGO

L-281

NOTAM FILE LAN

(HLM) 3 NW UTC-5(-4DT) N42°47.76′ W86°09.72′

CHICAGO

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LAKE HURON

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PARK TOWNSHIP FUEL 100LL TPA-1403(800) NOTAM FILE LAN

HNI I AND

RWY 05-23: H2999X50 (ASPH) MIRL (NSTD) RWY 05: Thid dspicd 725'. Road. RWY 23: Thid dspicd 1142'. Trees.

RWY 12-30: 2245X90 (TURF) RWY 12: Thid dspicd 1019'. Trees. RWY 30: Thid dspicd 820 '. Trees.

AIRPORT REMARKS: Attended irregularly, Rwy 12-30 CLOSED Nov 1 thru Mar 31 and when snow covered. Departure procedure: Rwys 05 and 23 climb straight-out to 1200' MSL before turning. Rwy

COMMUNICATIONS: CTAF/UNICOM 122.8

12-30 and dsplcd thids marked with 3' yellow cones. ACTIVATE NSTD MIRL Rwy 05-23-CTAF. Rwy 05-23 NSTD MIRL; Igts 24' from rwv edge.

PULLMAN RCO 122.1R 112.1T (LANSING RADIO) RADIO AIDS TO NAVIGATION

HOLLAND NDB 233 HLM N42°47.79' W86°09.45' at fld.

TULIP CITY (BIV) 2 S UTC-5(-4DT) N42°44.57′ W86°06.47′ FUEL 100LL, JET A OX 1. 2 NOTAM FILE BIV RWY 08-26: H6002X100 (ASPH-GRVD) S-75, D-160, 2D-175

AIRPORT REMARKS: Attended Mon-Fri 1100-0300Z‡, Sat and Sun 1200-0200Z‡. For arpt attendant other hrs and during emerg call 616-392-7831. Deer and birds on and invof arpt, Ldg fee, Ldg fee waived with minimum fuel purchase. HIRL Rwy 08-26 presest

RWY 08: REIL. PAPI (P4L)-GA 3.0° TCH 40'. Rgt tfc. RWY 26: REIL. MALSR. PAPI (P4L)-GA 3.0° TCH 33'. Trees.

low ints; to increase inst and ACTIVATE MALSR Rwy 26; REIL Rwy 08; PAPI Rwy 08 and Rwy 26-CTAF. WEATHER DATA SOURCES: ASOS 119.025 (616) 394-0190 COMMUNICATIONS: CTAF/UNICOM 123.05

PULLMAN RCO 122.1R, 112.1T (LANSING RADIO) (R) MUSKEGON APP/DEP CON 119.8 (1100-0400Z‡) MUSKEGON CLNC DEL 123 95

R CHICAGO CENTER APP/DEP CON 128.5 (0400-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

360° 16.6 NM to fld. 640/00E. W86°06.29' ILS/DME 110.55 I-BIV Chan 42Y

HOME ACRES SKY RANCH HONEY ACRES (See CLINTON)

PULLMAN (H) VOR/DME 112.1

HOUGHTON CO MEM (See HANCOCK)

HOUGHTON LAKE N44°21.53′ W84°39.94′

VOR/DME unmonitored dusk to 1300Z‡.

HOUGHTON LAKE STATE (5Y2) 1 W

UTC-5(-4DT) N44°19.75' W84°47.50'

(See LAKE CITY)

PMM Chan 58 N42°27.96' Rwv 26

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HOUGHTON LAKE HEIGHTS

COMMUNICATIONS: CTAF 122.9

1165

NOTAM FILE LAN

RWY 34: Thid dspicd 900'. Trees. AIRPORT REMARKS: Attended irregularly. Snow removal irregular—confirm condition with arpt manager on

RWY 16-34: 2750X104 (TURF)

RWY 16: Thid dspicd 550'. Brush.

616-540-1324. Rwy 16 has 35' p-line on centerline 315' from thId. Rwy 16-24 marked with yellow cones.

NOTAM FILE HTL.

(T) VORW/DME 111.6 HTL Chan 53 at Roscommon Co-Blodgett Meml. 1145/5W. ASOS.

ROSCOMMON CO-BLODGETT MEML (HTL) 5 NE UTC-5(-4DT) N44°21.59′ W84°40.27′ S4 FUEL 100LL JET A NOTAM FILE HTL

RWY 09-27: H4000X75 (ASPH)

HOUGHTON LAKE

S-24 HIRI

RWY 09: REIL. PAPI(P4L)-GA 4.0° TCH 32'. Trees.

RWY 27: REIL, PAPI(P4R)-GA 3.5° TCH 32', Trees. RWY 18-36: 2200X100 (TURF) RWY 18: Thid dsplcd 200'. Trees.

RWY 36: Thid dspicd 200'. Trees. AIRPORT REMARKS: Attended 1300-2230Z‡, Arpt unattended

Christmas and Thanksgiving. Rwy 18-36 CLOSED when snow covered except for ski-equipped acft. Animals on and invof arpt. on low ints dusk-0200Z‡; after 0200Z‡ ACTIVATE-CTAF. To

Rwy 18-36 marked with 3' yellow cones. HIRL Rwy 09-27 preset increase ints and ACTIVATE REIL and PAPI Rwys 09 and 27-CTAF. 2203' MSL (883' AGL) twr 4.2 NM southwest of arpt. WEATHER DATA SOURCES: ASOS 111.6 HTL (989) 366-4825. COMMUNICATIONS: CTAF/UNICOM 122.8

WEST BRANCH RCO 122.35 (LANSING RADIO) R MINNEAPOLIS CENTER APP/DEP CON 132.9 RADIO AIDS TO NAVIGATION: NOTAM FILE HTL.

HOUGHTON LAKE (T) VORW/DME 111.6 W84°39.94' at fld. 1145/5W. ASOS.

HOUGHTON LAKE STATE (See HOUGHTON LAKE HEIGHTS)

HOWARD NIXON MEML (See CHESANING)

HOWELL N42°38.03′ W83°59.26′. NOTAM FILE OZW. NDB (MHW) 243 OZW at Livingston Co Spencer J. Hardy.

HNWFII

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AERONUT PARK BALLOON (13M)

UTC-5(-4DT)NOTAM FILE LAN

RWY B1: 900X250 (TURF)

AIRPORT REMARKS: Attended irregularly. Contact owner at 517-552-1236 when using for first time. Acft in the vicinity

using Rwy 09-27 adjacent to the S at McKenzie's Landing (1MI5). No snow removal. Support vehicles be alert when driving on grass in spring and fall when wet due to possible soft areas.

COMMUNICATIONS: CTAF 122.9 LIVINGSTON CO SPENCER J. HARDY (OZW) 3 NW UTC-5(-4DT)

RWY 13-31: H5002X100 (CONC-GRVD) S-100 HIRL

RWY 13: MALSR. PAPI(P4L)-GA 3.0° TCH 47'. Trees.

RWY 31: REIL, PAPI(P4L)-GA 3.0° TCH 30', Trees.

AIRPORT REMARKS: Attended Mon-Fri 1200-2200Z‡, Sat-Sun 1300-1700Z‡. For fuel after hrs phone 517-548-4945. Deer and birds on and invof arpt. HIRL Rwy 13-31 ops low ints

S4 FUEL 100LL, JET A TPA-2001(1039)

dusk-0300Z‡; to increase ints and ACTIVATE after 0300Z‡-CTAF. ACTIVATE REIL Rwy 31 and MALSR Rwy 13-CTAF. PAPI Rwy 13 and Rwy 31 ops dawn-dusk, thereafter-CTAF. WEATHER DATA SOURCES: AWOS-3 118.875 (517) 546-4450.

COMMUNICATIONS: CTAF/UNICOM 123.0 R DETROIT APP/DEP CON 127.5 CLNC DEL 121.725

GCO 121.725 (DETROIT METRO CLNC and FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

SALEM (L) VORTAC 114.3 SVM Chan 90 N42°24.53' W83°35.65' 311° 21.7 NM to fld. 950/3W. HOWELL NDB (MHW) 243 OZW N42°38.03′ W83°59.26′

ILS/DME 108.55 I-OGO Chan 22Y Rwy 13. ILS/DME unmonitored.

NOTAM FILE OZW.

times. To contact FSS key frequency 121.725 6 times; one second on/one second off; monitor 121.725 while electronic equipment dials Detroit CLNC DEL/Lansing FSS.

COMM/NAV/WEATHER REMARKS: For CLNC DEL key frequency 121.725 4

03 03. Na a^a 00000000 ପ୍ର ପ୍ର 4000 X 75 G G G å I C3 0 ~ B **(3** Chan 53 N44°21.53'

N42°36.25' W83°51.52'

Not insp.

LAKE HIIRON

L-31C

DETROIT

DETROIT

DETROIT

L-28J

IAP

COPTER NOTAM FILE OZW H-10G, L-28J IAP ¢ €3 €3 at fld 0 0

N42°37.77′ W83°58.93′

N45°24.50′ W84°36.00′

N42°33.91′ W83°51.38′

RWY 35: Thid dspicd 553'. Trees. AIRPORT REMARKS: Attended irregularly. Deer on and invof rwy. Ultralight activity on and invof arpt. Heavy equipment

RWY 34: Thid dsplcd 380'. Trees.

COPTER

LAKE HURON

GREEN BAY

CHICAGO

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L-281

IAP

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L-31C

INDIAN RIVER CALVIN CAMPBELL MUNI FUEL 100LL

RWY 10: Trees.

RWY 10-28: H3006X50 (ASPH)

INDIAN CREEK RANCH

HIIRON CO MEM

(4Y1)

NOTAM FILE LAN

RWY 17-35: 2206X60 (TURF) RWY 17: Thid dsplcd 540'. Trees.

COMMUNICATIONS: CTAF 122.9

6 SE

(See BAD AXE)

RAETHER

982

(See DECKERVILLE) 1 E UTC-5(-4DT) (Y65)

NOTAM FILE LAN

UTC-5(-4DT)

LIRI

RWY 28: Thid dsplcd 600'. Trees.

adjacent to W side of Rwy 35. Rwy 17-35 thld and dsplcd thlds marked with 3' cones.

AIRPORT REMARKS: Attended irregularly. Snow removal intermittent; to verify condition call 231-238-8614. Deer and

birds on and invof arpt. ACTIVATE LIRL Rwy 10-28-CTAF.

S-19

3' yellow cones. Acft parked adjacent to Rwy 18-36 and 09-27

0.3% up S

COMMUNICATIONS: CTAF 122.9 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN. PELLSTON (L) VORTACW 111.8 PLN Chan 55 N45°37.84′ W84°39.85′

HIWAS.

GRFFNIAKE 3 S

N44°36.37′ W85°45.51′ (Y88) UTC-5(-4DT)

NOTAM FILE LAN

INTERI OCHEN RWY 05-23: 2800X170 (TURF)

RWY 05: Trees. RWY 23: Thid dsplcd 600'. Trees.

RWY 16-34: 1700X170 (TURF) RWY 16: Thid dspicd 200'. Trees.

AIRPORT REMARKS: Unattended, CLOSED Nov-Mar, Remote control model acft opr area south of Rwy 34 end, 460' antenna 1.25 NM N of arpt. Noise sensitive area one mile N of arpt. Athletic flds on centerline N end Rwy

16-34; Do not use rwy when in use. Rwy 05-23 and Rwy 16-34 and dsplcd thids marked with 3' yellow cones.

COMMUNICATIONS: CTAF 122.9

IONIA CO (Y7Ø) 3 S FUEL 100LL, JET A NOTAM FILE LAN S4

RWY 09-27: H4300X75 (ASPH) RWY 09: PAPI(P4L)-GA 3.0° TCH 25'. Tree.

RWY 27: REIL. PAPI(P4L)-GA 3.0° TCH 22'. Trees. RWY 18-36: 4290X340 (TURF)

pattern. ACTIVATE rotating bcn-122.8. ACTIVATE MIRL Rwy 09-27, PAPI and REIL Rwy 27-122.8. Rwy 18 ends marked with

R LANSING APP/DEP CON 118.65

IOSCO CO (See EAST TAWAS) **IRON CO** (See CRYSTAL FALLS)

W84°41.85'

during glider operations.

LANSING (L) VORTACW 110.8

COMMUNICATIONS: CTAF/UNICOM 122.8

RWY 36: Tree. AIRPORT REMARKS: Attended 1400-2200Z‡. Rwy 18-36 CLOSED Nov 15-Apr 15. Glider ops conducted S of Rwy 09-27 and W of Rwy 18-36 use freq 123.3 in practice area. Gliders use 122.8 in tfc

UTC-5(-4DT) N42°56.28' W85°03.63'

0.3% un W

MIRI

WEATHER DATA SOURCES: AWOS-3 118.9 (616) 523-1852. GRAND RAPIDS RCO 122.1R 115.95 (LANSING RADIO) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

LAN Chan 45 N42°43.04'

315° 20.8 NM to fld. 887/5W.

81 a 4300 X 75 €3 03 F 280 €3

175° 13.6 NM to fld. 840/6W.

IRON MOUNTAIN N45°48.96′ W88°06.73′ NOTAM FILE IMT. (L) VOR/DME 111.2 IMT Chan 49 at Ford, 1128/2W.

DME unusable 141°-220° byd 20 NM blo 2900′; 221°-315° byd 15 NM blo 4000′; 316°-019° byd 20 NM blo 5000', 020°-140° blo 10000'.

MIRI

carrier ops to pass along updated sfc condition reports. ACTIVATE HIRL Rwy 01-19, MIRL Rwy 13-31, VASI Rwy 19 and 31; REIL Rwy 19 and 31; MALSR Rwy 01—CTAF. TPA—1982(800) Jet/Turbo-Jet/Prop over 12,500 lbs

RCO 122.1R 111.2T (GREEN BAY RADIO)

IRON MOUNTAIN/KINGSFORD

NOTAM FILE IMT

GREEN BAY H-2K. L-31A

GREEN RAY

I-31A

(IMT) 3 W UTC-6(-5DT) N45°49.10′ W88°06.87′ TPA—See Remarks

R S4 FUEL 100LL, JET A OX 4

RWY 01-19: H6501X150 (ASPH-PFC) S-100, D-100, 2S-127, 2D-190 RWY 01: MALSR. Trees.

RWY 19: REIL. VASI(V4L)-GA 3.0° TCH 42'. RWY 13-31: H3809X75 (ASPH) S-30, D-50, 2D-80

RWY 31: REIL, VASI(V4L)—GA 4.0° TCH 40', Trees.

RIINWAY DECLARED DISTANCE INFORMATION TORA-6501 TODA-6501 ASDA-6501 LDA-6501

TORA-3809 TODA-3809 ASDA-3809 LDA-3809 RWY 13-TORA-6501 TODA-6501 ASDA-6501 LDA-6501 RWY 19-TORA-3809 TODA-3809 ASDA-3809 LDA-3809

AIRPORT REMARKS: Attended 1130-0530Z‡. Ldg fee. Deer; coyotes and birds on and invof arpt. 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats call 906-774-4830. Air carrier ops involving acft with more than 9 passenger seats are

not authorized in excess of 15 minutes before or after scheduled arrival/dep times without prior coordination with arpt manager and confirmation that ARFF is avbl prior to tkf or landing. ARFF crews will be monitoring UNICOM/CTAF during all air carrier ops. Snow

removal crew will be monitoring CTAF/UNICOM during all air

à 0,00 61 (3 (3) G G æ

Class I. ARFF Index A

0.8% un N

HIRI

COMMUNICATIONS: CTAF/UNICOM 122.8 IRON MOUNTAIN RCO 122.1R 111.2T (GREEN BAY RADIO) MINNEAPOLIS CENTER APP/DEP CON 121.25

WEATHER DATA SOURCES: ASOS 119.025 (906) 774-1999.

AIRSPACE: CLASS E svc Mon-Fri 1200-0400Z‡, Sat 1500-0100Z‡, Sun 1500-0400Z‡ other times CLASS G. RADIO AIDS TO NAVIGATION: NOTAM FILE IMT.

IRON MOUNTAIN (L) VOR/DME 111.2 IMT Chan 49 N45°48.96' W88°06.73' at fld 1128/2W KORDS NDB (LOM) 255 IM N45°43.63′ W088°07.96′ 010° 5.5 NM to fld.

Class IC. LOM KORDS NDB. IIS 111 5 I_IMT Rwy 01.

COMM/NAV/WEATHER REMARKS: UNICOM monitored part-time.

IRON RIVER STAMBAUGH

(Y73) NOTAM FILE GRB RWY 17-35: H2000X40 (ASPH)

GREEN BAY

L-14I

GREEN BAY

LIRL (NSTD)

RWY 17: Trees.

2682(1500).

AIRPORT REMARKS: Unattended. Deer on and invof arpt. 100' drop off at each rwy end. Rwy 17-35 slopes down from S to N. ACTIVATE LIRL Rwy 17-35-121.9. Rwy 17-35 NSTD LIRL 26' from rwy edge. Rwy 17-35 NSTD basic

UTC-6(-5DT) N46°04.73' W88°38.13'

1 SE

marking; does not start at pavement edge. Rwy 17-35 numerous cracks in rwy. COMMUNICATIONS: CTAF 122.9

IRONWOOD N46°31.94′ W90°07.55′ NOTAM FILE IWD.

(L) VORTACW 108.8 IWD Chan 25 at Gogebic-Iron Co. 1230/1E. HIWAS.

RCO 122.3 (GREEN BAY RADIO)

Class II. ARFF Index A NOTAM FILE IWD

1Ø S UTC-5(-4DT) N46°20.71' W87°47.31'

GREEN RAY

H-2K, L-14I

GREEN BAY

IAP

IRNNWNND **GOGEBIC-IRON CO** (IWD) 7 NE UTC-6(-5DT) N46°31.65′ W90°07.88′ 1230 B FUEL 100LL JET A

RWY 09-27: H6501X130 (ASPH-GRVD) S-85, D-150, 2S-175, 2D-280 RWY 09: REIL. VASI(V4L)-GA 3.0° TCH 47'. Trees. RWY 27: MALSR. Trees.

RUNWAY DECLARED DISTANCE INFORMATION RWY 09: TORA-6501 TODA-6501 ASDA-6501 LDA-6501 RWY 27: TORA-6501 TODA-6501 ASDA-6501 LDA-6501

AIRPORT REMARKS: Attended 1400-0200Z‡. Be alert for PAEW during snow removal. Arpt signs may be snow covered during winter months. Arpt CLOSED to unscheduled air carrier opns with more than 30 passenger seats except 48 hr PPR call arpt manager

906-932-3121. Various wildlife on and invof arpt. ACTIVATE HIRL Rwy 09-27; REIL Rwy 09; MALSR Rwy 27-CTAF. Ldg fee. Landing fees waived if fuel purchased. Firefighting personnel will be monitoring CTAF during all scheduled air carrier ops. Arpt will be

monitoring CTAF during all scheduled air carrier ops to convey latest rwy conditions during winter wx.

WEATHER DATA SOURCES: AWOS-3 125.175 (906) 932-4039. **DWI 8 801 2AWIH** COMMUNICATIONS: CTAF/UNICOM 122.8

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at fld. 1230/1E. HIWAS.

ISHPFMING

ILS 111.5 I–IWD

NOTAM FILE GRB

(See NUNICA)

EDWARD F JOHNSON (M61)

IRONWOOD (L) VORTACW 108.8 IWD Chan 25 N46°31.94′ W90°07.55′ Rwv 27. Class IT. Unmonitored.

IRONWOOD RCO 122.3 (GREEN BAY RADIO) (R) MINNEAPOLIS CENTER APP/DEP 133.55 RADIO AIDS TO NAVIGATION: NOTAM FILE IWD.

RWY 18-36: 2200X100 (TURF) RWY 36: Thid dsplcd 200'. Trees. RWY 18: Trees

AIRPORT REMARKS: Unattended. CLOSED winter months Dec-Apr and when snow covered. Rwy 18-36 rough with sandy areas. Lgtd 419' AGL twr located 6100' south of arpt and 600' right of extended centerline Rwy 18-36.

Rwy 18 marked with 3' yellow cones.

COMMUNICATIONS: CTAF 122.9

JACK BARSTOW (See MIDLAND)

JABLONSKI

JACKSON CO-REYNOLDS FLD (JXN) 2 W UTC-5(-4DT) N42°15.63′ W84°27.63′ S4 FUEL 100LL, JET A NOTAM FILE IXN 1001 R

RWY 06-24: H5349X150 (ASPH - GRVD) S-75, D-150, 2D-200

HIRI

RWY 06: VASI(V4L)-GA 3.0° TCH 27'. Thid dsplcd 440'. Railroad. RWY 24: MALSR. Trees.

RWY 14-32: H4000X100 (ASPH-GRVD) S-75, D-150 MIRL

0.3% up SW

RWY 14: PAPI(P4L)-GA 3.0° TCH 25'. Trees.

RWY 32: REIL. PAPI(P4L)—GA 3.5° TCH 31'. Trees.

LAND AND HOLD SHORT OPERATIONS

LANDING HOLD SHORT POINT DIST AVBL

RWY 24 14-32 3406 AIRPORT REMARKS: Attended Apr-Oct 1200-0100Z‡, Nov-Mar

1300-2300Z‡. CAUTION: Deer and birds on and invof arpt. Low

altitude acft ops prohibited invof prison 4 mi NE. When twr closed

ACTIVATE HIRL Rwy 06-24, MIRL Rwy 14-32; VASI Rwy 06, PAPI Rwy 14 and Rwy 32; REIL Rwy 32; MALSR Rwy 24-CTAF.

WEATHER DATA SOURCES: ASOS (517) 768-7506.

COMMUNICATIONS: CTAF 128 475 ATIS 125.725

UNICOM 122.95

RCO 122.2 (LANSING RADIO) R LANSING APP/DEP CON 127.3

GND CON 121.9 TOWER 128.475 (1200-0200Z‡) **CLNC DEL** 121.9

AIRSPACE: CLASS D svc 1200-0200Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE JXN.

(L) VORW/DME 109.6 JXN Chan 33 N42°15.55′ W84°27.51′ at fld. 995/5W. VOR portion unusable 250°-310° byd 20 NM. DME portion unusable 075°-255° byd 10 NM blo 3000′.

N42°56.20′ W85°48.35′

3

JAKSO NDB (LOM) 212 JX N42°19.07′ W84°21.93′ 236° 5.5 NM to fld.

ILS 109.1 I-JXN Rwy 24 LOM JAKSO NDB. ILS and LOM unmonitored when twr clsd.

JAKSO N42°19.07′ W84°21.93′ NOTAM FILE JXN.

3 NW

236° 5.5 NM to Jackson Co-Reynolds Fld. LOM unmonitored when twr clsd.

JAMES CLEMENTS MUNI (See BAY CITY)

IFNISON (Ø8C)

RIVERVIEW

UTC-5(-4DT) FUEL 100LL NOTAM FILE LAN

RWY 14-32: H3920X49 (ASPH) MIRL

RWY 32: Thid dspicd 1196'. Trees. RWY 14. Trees

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z±. Sat-Sun

irregularly. Fuel 24 hr self serve. Deer and birds on and invof arpt. Rwy 14-32 trees and shrubs in transition zone both sides.

ACTIVATE MIRL Rwv 14-32-CTAF. COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE MKG.

MUSKEGON (L) VORTACW 115.2 MKG Chan 99 N43°10.16'

W86°02.36' 145° 17.3 NM to fld. 659/1W. HIWAS.

A B Unde Construction 03 Rwy 14-32: 4000 X 100

DETROIT

IAP. AD

DETROIT

CHICAGO

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L-281

H-10G I-28I

JERRY TYLER MEML (See NILES)

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N42°14.06′ W85°33.09′

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NOTAM FILE AZO

Residential

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at fld. 870/1W.

LOM AUSTN NDB. LOC BC unusable byd 10° left and right of course. LOC BC

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CHICAGO

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H-5E, 10F, L-281

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CHICAGO

GREEN BAY

L-31B

ΚΔΙ ΔΜΔΖΩΩ

KALAMAZOO/BATTLE CREEK INTL

IRA Class I. ARFF Index B RWY 17-35: H6502X150 (ASPH-GRVD) S-85, D-121, 2S-153, 2D-240 HIRI

RWY 17: REIL. PAPI(P4L)-TCH 45'. Trees.

UNICOM 122.95

Chan 27 N42°14.22′ W85°33.19′

AUSTN NDB (LOM) 371 AZ N42°07.86′ W85°31.79′ 354° 6.3 NM to fld. Unmonitored when twr clsd.

RWY 36: Thid dsplcd 385'. Tree.

CLNC DEL 121.75

GND CON 121.9

UTC-5(-4DT)

0.4% up W

(AZO) 3 SE

S4 FUEL 100LL JET A 0X 1. 3 TPA-1674(800)

RWY 35: MALSR. PAPI(P4L)—GA 3.0° TCH 53'. Railroad. RWY 05-23: H3438X100 (ASPH-GRVD) S-30, D-45, 2D-60

MIRL 0.7% up SW RWY 05: REIL. PAPI(P4L)-GA 3.0° TCH 28'. Pole.

RWY 23: REIL, PAPI(P4L)-GA 3.5° TCH 34', Tree.

RWY 09-27: H2800X60 (ASPH) S-30, D-60 MIRL

RWY NO. Tree

RWY 27. Railroad

RUNWAY DECLARED DISTANCE INFORMATION

RWY 05: TORA-3438 TODA-3438 ASDA-3438 LDA-3438

TORA-2800 TODA-2800 ASDA-2800 LDA-2800

RWY 09: TORA-2800 TODA-2800 ASDA-2800 LDA-2800 RWY 17: TORA-6502 TODA-6502 ASDA-6502 LDA-6502 RWY 23: TORA-3438 TODA-3438 ASDA-3438 LDA-3438

RWY 27-

RWY 35. TORA-6502 TODA-6502 ASDA-6502 LDA-6502

AIRPORT REMARKS: Attended continuously, Rwy 05-23 avbl for air

carrier twy only and Rwy 09-27 not avbl for air carrier ops with more than 10 passenger seats. Migratory water fowl roosting area 5500' apch end Rwy 35. Birds on and invof arpt. PPR for unscheduled air carrier ops with

more than 30 passenger seats call arpt manager 269-388-3668. Rwy 09 and Rwy 05 apch ends are closely

aligned. Verify correct rwy and compass heading prior to departure. When twr clsd ACTIVATE HIRL Rwy 17-35,

MIRL Rwy 05-23 and Rwy 09-27; MALSR Rwy 35; PAPI Rwy 05, Rwy 23, Rwy 17, and Rwy 35; REIL Rwy 05, Rwy 23 and Rwy 17—CTAF, FAR PART 36 noise limits in effect 0400-1130Z±, For customs call 269-965-3349.

Twys F and G east of Rwy 17-35 restricted acft less than 12.500 lbs. WEATHER DATA SOURCES: ASOS (269) 384-5729. LAWRS. COMMUNICATIONS: CTAF 118.3 ATIS 127.25

RCO 122.1R 109.0T (LANSING RADIO) (R) APP/DEP CON 121.2 (175°-353°) 119.2 (354°-174°) 123.8 (1100-0400Z‡)

R CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z‡) TOWER 118.3 (1100-0400Z‡)

AIRSPACE: CLASS D svc 1100-0400Z‡ other times CLASS G. TRSA svc ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE AZO. (L) VOR/DME 109.0 AZO

840

HIWAS

AIRPORT REMARKS: Attended irregularly. Deer invof rwy. Rwy 18-36 and dsplcd thids marked with 3' yellow cones. ACTIVATE LIRL Rwy 18-36-122.9. COMMUNICATIONS: CTAF: 122.9 1 SW UTC-5(-4DT) N44°43.51′ W85°12.19′

DME portion unusable bvd 35 NM blo 2500'.

Rwv 35.

unusable byd 10 NM. LOC and GS unmonitored when twr closed.

(4NØ) 7 W UTC-5(-4DT) N42°17.34′ W85°45.00′

KALKASKA CITY (Y89) NOTAM FILE LAN RWY 10-28: H3500X75 (ASPH) MIRL RWY 10: PAPI(P2L)-GA 3.0° TCH 24'. Trees.

I-AZO

NOTAM FILE LAN RWY 18-36: 2697X125 (TURF) LIRL RWY 18: Thid dspicd 191'. Trees.

ASR (1100-0400Z‡)

AIRPORT REMARKS: Unattended. Deer and birds on and invof arpt. ACTIVATE MIRL Rwy 10-28 and PAPI Rwy 10 and Rwy 28-CTAF. COMMUNICATIONS: CTAF 122.9 RADIO AIDS TO NAVIGATION: NOTAM FILE TVC.

TRAVERSE CITY (H) VORTACW 114.6 TVC

Chan 93 N44°40.07′ W85°33.00′ 079° 15.2 NM to fld. 912/2W.

EC. 23 SEP 2010 to 18 NOV 2010

RWY 28: PAPI(P2L)-GA 4.0° TCH 32'. Trees.

MICHIGAN KEELER N42°08.66′ W86°07.36′ NOTAM FILE LAN. (L) VOR/DME 116.6 ELX Chan 113 H-5E. 10F. L-28I 182° 9.1 NM to Dowagiac Muni. 795/00E. RCO 122.1R 116.6T (LANSING RADIO) KENT CITY WILDERNESS AIRPARK (24M) 3 NE UTC-5(-4DT) N43°14.69′ W85°42.70′ 795 NOTAM FILE LAN RWY 09-27: 2543X100 (TURF) RWY 09: Thid dsplcd 537'. Trees. RWY 27: Thid dspicd 335'. Road. AIRPORT REMARKS: Attended irregularly. Rwy 09-27 aerobotic practice area over arpt, 200' AGL to 2500' MSL. Rwy 09-27 and dspl thids marked with 3' yellow cones. COMMUNICATIONS: CTAF 122.9 KINGSFORD (See IRON MOUNTAIN/KINGSFORD) KIRSCH MUNI (See STURGIS) **KNOBS** N42°53.74′ W85°22.72′ NOTAM FILE GRR. NDB (LOM) 263 GR 266° 6.4 NM to Gerald R Ford Intl. LOM OTS indef. KOLOE N46°19.93′ W84°32.53′ NOTAM FILE CIU. NDB (MH/LOM) 400 CI 155° 5.7 NM to Chippewa Co Intl. NDB unmonitored. KORDS N45°43.63′ W088°07.96′ NOTAM FILE IMT. NDB (LOM) 255 IM 010° 5.5 NM to Ford. LAKE CITY HOME ACRES SKY RANCH (Y91) 2 E UTC-5(-4DT) N44°19.22′ W85°10.27′ TPA-2047(800) NOTAM FILE LAN RWY 09-27: 3830X160 (TURF) LIRI RWY 09: Thid dspicd 376'. Road. RWY 27: Thid dspicd 1164'. Trees. RWY 18-36: 2550X150 (TURF) LIRL RWY 18: Thid dspicd 257'. Road. RWY 36: Thid dspicd 396'. Road. AIRPORT REMARKS: Attended irregularly. No snow removal. Deer and birds on and invof arpt. Tall trees along both rwys and at the intersection of Rwy 09-27 and Rwy 18-36 blocking the view of intersecting rwy. ACTIVATE LIRL Rwys 09-27 and 18-36-CTAF. Rwy 09-27 and Rwy 18-36 marked with 3' yellow cones. For airframe and power plant repairs call 231-839-4009. COMMUNICATIONS: CTAF/UNICOM 123.0 COMM/NAV/WEATHER REMARKS: UNICOM unmonitored. LAKE | SABELLA-CAL BREWER MEML (D15) 1 E UTC-5(-4DT) N43°38.67' W84°58.92' 888 NOTAM FILE LAN RWY 11-29: H2582X50 (ASPH) LIRL (NSTD) RWY 11: Thid dsplcd 1089' Tree. RWY 29: Thid dspicd 717'. Trees. AIRPORT REMARKS: Unattended. No regular snow removal, for arpt conditions call 989-644-8654. Rwy 11-29 NSTD LIRL, not FAA approved lighting fixtures, ACTIVATE NSTD LIRL Rwy 11-29-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8 LAKES OF THE NORTH (See GAYLORD)

CHICAGO

CHICAGO

CHICAGO

LAKE HURON

GREEN BAY

DETROIT

L-31B

172

LAKEVIEW ARPT-GRIFFITH FLD (13C) 1 NE UTC-5(-4DT) N43°27.13′ W85°15.89′

NOTAM FILE LAN

FUEL 100LL RWY 09-27: H3500X75 (ASPH) S-12 MIRL RWY 09: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Trees.

B S4

RWY 27: REIL. PAPI(P2L)-GA 3.0° TCH 50'. Trees.

AIRPORT REMARKS: Attended 1300Z‡-dusk. For service after hrs call assistant arpt manager on 616-527-0915, ACTIVATE MIRL Rwy 09-27; PAPI and REIL Rwys 09 and 27-CTAF. Agricultural and Helicopter ops on grass area N of Rwy 09-27.

COMMUNICATIONS: CTAF/UNICOM 122.8 R GRAND RAPIDS APP/DEP CON 124.6 (1030-0500Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

(R) CHICAGO CENTER APP/DEP CON 128.5 (0500-1030Z‡) WHITE CLOUD (L) VOR/DME 117.6 HIC Chan 123 N43°34.49' W85°42.97′ 111° 21 NM to fld. 920/1W.

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LAMBERTVILLE TOLEDO SUBURBAN (DUH) 2 SW UTC-5(-4DT) N41°44.15′ W83°39.35′

B S4 FUEL 100LL, JET A NOTAM FILE DUH

RWY 09-27: H4851X50 (ASPH) MIRL RWY 09: Thid dspicd 1298'. Trees.

RWY 27: Thid dspicd 1017', Road.

AIRPORT REMARKS: Attended May-Sept 1300-0100Z‡, Oct-Apr 1300-2300Z‡. Deer on and invof arpt. Parallel twy CLOSED indef.

4' fence 110' N side of rwy. Crops 50' S side of rwy in primary surface. ACTIVATE NSTD MIRL Rwy 09-27-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.175 (734) 856-1563. COMMUNICATIONS: CTAF/UNICOM 122.7

WATERVILLE RCO 122.1R 113.1T (CLEVELAND RADIO)

R TOLEDO APP/DEP CON 134.35 RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

WATERVILLE (L) VOR/DME 113.1 VWV Chan 78 N41°27.09' W83°38.32' 359° 17.1 NM to fld. 660/2W.



LANSING N42°43.05′ W84°41.86′ NOTAM FILE LAN. (L) VORTACW 110.8 LAN Chan 45 340° 3.8 NM to Abrams Muni. 887/5W.

VOR unusable 102°-158° blo 5000'.

RCO 122.2 (LANSING RADIO)

DETROIT H-5E, 10G, L-28J

CHICAGO

DETROIT

L-28J

IAP

1-281

IAP

LANSING

CAPITAL REGION INTL (LAN) 3 NW N42°46.72′ W84°35.17′ UTC-5(-4DT) S4 FUEL 100LL, JET A OX 1 AOE ARFF Index—See Remarks

H-5E, 10G, L-28J

DETROIT

IAP. AD

NOTAM FILE LAN RWY 10R-28L: H8506X150 (ASPH-GRVD) S-100, D-175, 2S-175,

RWY 28L: MALSR.

RWY 06-24: H5002X120 (ASPH) S-45, D-65, 2S-82,

2D-300 HIRL PWV 10P. MAISP

2D-100 MIRI

RWY 06: REIL. PAPI(P4L)-GA 3.0° TCH 40'. Road. RWY 24: REIL. PAPI(P4L)-GA 3.0° TCH 42'. Trees.

RWY 10L-28R: H3601X75 (ASPH) S-12

RWY 101 · Trees RWY 28R: Road.

AIRPORT REMARKS: Attended continuously. Birds on and invof arpt. Class I, ARFF Index B, ARFF index C avbl on request; call arpt manager 517-321-6121. Rwy 10L-28R not avbl to air carrier acft with more than 9 passenger seats. Twy A N of Rwy 28; Twys E and

G not avbl to air carrier acft with more than 9 passenger seats. Ldg fee. Acft blo 6500 lbs exempt from ldg fee. Intl arrivals

UNICOM 122.95

accepted up to 20 passenger seats. Flight Notification Service (ADCUS) avbl. WEATHER DATA SOURCES: ASOS (517) 886-0015, LLWAS,

LANSING RCO 122.2 (LANSING RADIO)

COMMUNICATIONS: ATIS 119.75

R LANSING APP/DEP CON 133.475 (North) 118.65 (South) GND CON 121 9 **CINC DEL 123 675**

LANSING TOWER 119.9 AIRSPACE: CLASS C svc continuous ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

LANSING (L) VORTACW 110.8 LAN Chan 45 N42°43.04′ W84°41.85′ 058° 6.1 NM to fld. 887/5W.

IIS 110 1 I-I AN Rwv 28L.

ILS 111.7 I-CPO Class ID. ILS unusable byd 25° left and right of course. Rwy 10R. ASR

I APFFR

DUPONT-LAPEER UTC-5(-4DT) N43°03.99' W83°16.31' (D95) 2 NE 834 **S4** FUEL 100LL NOTAM FILE LAN

RWY 18-36: H3800X75 (ASPH) MIRL RWY 18: REIL, PAPI(P4L)—GA 4.0° TCH 36', Trees.

RWY 36: REIL. PAPI (P2L)-GA 4.0° TCH 33'. Trees. RWY 09-27: 1900X150 (TURF)

RWY 09: Thid dspicd 500'. Bldg. RWY 27: Trees. AIRPORT REMARKS: Attended 1300-2300Z‡, Arpt unattended

Christmas, New Year's, Easter Sun and Thanksgiving day. Rwy

09-27 CLOSED Nov thru Apr and when snow covered. Two center and S twy connectors clsd indef. Rwy 09-27 and dsplcd thld

marked with 3' yellow cones. Twy Igts OTS indef. Rotating bcn opr dusk-0400Z‡. For rotating bcn after 0400Z‡ ACTIVATE—CTAF. ACTIVATE MIRL Rwy 18-36, PAPI Rwy 18 and Rwy 36 and REIL

Rwy 18 and Rwy 36-CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0 FLINT RCO 122.3 (LANSING RADIO)

R FLINT APP/DEP CON 128.55 (N/W of active rwy) 118.8 (E/S of active rwy) (1045-0430Z‡) CLEVELAND CENTER APP/DEP CON 127.7 (0430-1045Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE FNT.

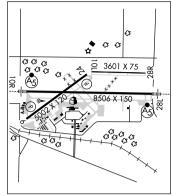
FLINT (H) VORTACW 116.9 FNT Chan 116 N42°58.01'

079° 21.8 NM to fld. 772/6W. W83°44.82'

COMM/NAV/WEATHER REMARKS: APP CON sectorization based upon Flint rwy usage. APP/DEP CON and CLNC DEL not available on the ground.

LENAWEE CO (See ADRIAN)

LEO E. GOETZ CO (See ONAWAY)



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DETROIT

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LAKE HIIRON

LAKE HURON

DETROIT

COPTER

DETROIT

H-5E, 10G, L-28J

L-28J

RWY 18-36: H5047X75 (ASPH) S-15 MIRL RWY 18. Trees AIRPORT REMARKS: Unattended, Rwy 18-36 sfc large cracks in payement. Non-aviation related cargo ops on north

LINDEN PRICES

I FWISTON GARLAND

1218 R

ramp. No acft parking. Acft use west ramp. Fence around arpt-keep gate clsd. ACTIVATE MIRL Rwy 18-36-CTAF. Landing fee. COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. GAYLORD (L) VORW/DME 109.2 GLR Chan 29 N45°00.75' W84°42.26'

NOTAM FILE LAN

LINCOLN (3L7) 3 NE

FLYING M RANCH UTC-5(-4DT) N44°44.30′ W83°22.78′ NOTAM FILE LAN

RWY 09-27: 2200X90 (TURF) RWY 09: Thid dsplcd 600'. P-line.

> S2 RWY 09-27: H4000X75 (ASPH)

AIRPORT REMARKS: Attended May-Oct irregularly. Arpt CLOSED Nov-Apr and when snow covered. No snow removal. COMMUNICATIONS: CTAF/UNICOM 123.0

Occasional deer on rwy, Rwy 09-27 surface slightly rough and irregular on rolling terrain. Rwy slopes down from west to east. Rwy soft in spring. Rwy 09 p-line marked with orange balls.

RWY 09: REIL. Thid dsplcd 268'. Trees.

RWY 27: Thid dspicd 800'. Trees.

09-27and REIL Rwv 09-CTAF. COMMUNICATIONS: CTAF/UNICOM 123.0 FLINT RCO 122.3 (LANSING RADIO)

(9G2) 1 S UTC-5(-4DT) N42°48.46′ W83°46.20′

FUEL 100LL NOTAM FILE LAN

AIRPORT REMARKS: Attended irregularly, Deer and birds on and invof arpt. Airframe repairs: prior arrangement. ACTIVATE MIRL Rwy

MIRL

RWY 27. Trees

0.3% up W

130° 22NM to fld. 1318/4W.

ΙΔΡ Ç3 Ç3 0 V J 4000 X 75 03 03 €3 C3 C3 03 C3 ଫଫ୍

R FLINT APP/DEP CON 128.55 (N/W of active rwy) 118.8 (E/S of active rwy) (1045-0430Z‡) CLEVELAND CENTER APP/DEP CON 126.75 (0430-1045Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE FNT.

FLINT (H) VORTACW 116.9 FNT Chan 116 N42°58.01' W83°44.82' 193° 9.6 NM to fld. 772/6W. COMM/NAV/WEATHER REMARKS: APP CON sectorization based upon Flint

rwy usage.

LITCHFIELD N42°03.75′ W84°45.91′ NOTAM FILE LAN. (L) VOR/DME 111.2 LFD Chan 49 141° 11.7 NM to Hillsdale Muni. 1040/05W. DME unusable 110°-165° byd 35 NM below 3000'.

RC0 122.1R 111.2T (LANSING RADIO)

LIVINGSTON CO SPENCER J. HARDY (See HOWELL)

LOST CREEK (See LUZERNE)

MICHIGAN 176 LOWELL CITY N42°57.24′ W85°20.64′ (24C) 1 N UTC-5(-4DT) S4 FUEL 100LL NOTAM FILE LAN 681

LIRI

RWY 24: Thid dspicd 1200'. Trees.

RWY 30: Thid dsplcd 597'. Tree.

RWY 33: Thid dsplcd 388'. Tree.

NOTAM FILE LDM.

LUCE CO (See NEWBERRY) NDB (MHW) 341 LDM

(LDM)

S4

LUDINGTON MASON CO

RWY 06-24: 2700X100 (TURF) RWY 06: Thid dspicd 1100'. Trees.

RWY 12-30: H2394X48 (ASPH)

RWY 12: Thid dspicd 603'. Tree. RWY 15-33: 1940X100 (TURF)

RWY 15: Thid dsplcd 582'. Tree. AIRPORT REMARKS: Attended Apr-Oct Mon-Fri 1230-2200Z‡, Nov-Mar Mon-Fri 1300-2100Z‡. Snow removal Rwy 12-30 only. Rwy 12-30 extensive cracking length rwy. ACTIVATE LIRL Rwy 12-30—CTAF. Rwy 15-33 and dsplcd

thids marked with three 3' yellow cones. Rwy 06-24 and dsplcd thids marked with 3' yellow cones. COMMUNICATIONS: CTAF/UNICOM 123.0

LUDINGTON N43°57.77′ W86°24.57′

at Mason Co

RCO 122.45 (LANSING RADIO) 2 NE

UTC-5(-4DT) FUEL 100LL, JET A NOTAM FILE LDM RWY 08-26: H5003X75 (ASPH-PFC) S-25 MIRI

RWY 08: PAPI(P2L)-GA 3.0° TCH 28'. Trees. RWY 26: REIL, PAPI(P4L)—GA 3.0° TCH 43', Trees. S-19 MIRI

RWY 01-19: H3503X75 (ASPH-PFC) RWY N1. PAPI(P21) RWY 19: PAPI(P2L). Trees. AIRPORT REMARKS: Attended Apr-May 1300-2200Z±, Oct-Mar Mon-Fri

1400-2200Z‡ and Sat-Sun 1300-2200Z‡, Jun-Aug 1300-0100Z±. Sep 1300-2200Z±. Birds and deer on and invof arpt, ACTIVATE MIRL Rwy 08-26 and Rwy 01-19 PAPI Rwy 08. Rwy 26, Rwy 01 and Rwy 19, and REIL Rwy 26-CTAF. WEATHER DATA SOURCES: AWOS-3 119.925 (231) 843-0459. COMMUNICATIONS: CTAF/UNICOM 123.0

LUDINGTON RCO 122.45 (LANSING RADIO) MINNEAPOLIS CENTER APP/DEP CON 120.85 RADIO AIDS TO NAVIGATION: NOTAM FILE MBL. MANISTEE (I) VOR/DMF 111 4 MBL Chan 51 N44°16.24' W86°15.24' 205° 19.6 NM to fld. 618/5W.

MANISTEE RCO 122.1R 111.4T (LANSING RADIO)

LUDINGTON NDB (MHW) 341 LDM N43°57.77′ W86°24.57′ fld. NOTAM FILE LDM.

I II7FRNF LOST CREEK (5Y4) 3 NE UTC-5(-4DT)N44°39.60′ W84°14.25′

N43°57.75′ W86°24.48′ CHICAGO H-2L, L-281 ΙΔΡ a C3 C3 G G €3 **C3** C3 **(3** aa G G a 43 a a

CHICAGO

CHICAGO

LAKE HURON

L-281

1051 NOTAM FILE LAN

RWY 18-36: 2600X100 (TURF) RWY 36: Thid dspicd 715'. Trees.

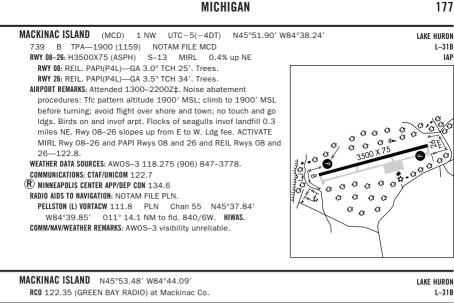
RWY 18: Thid dspicd 440'. Trees. RWY 05-23: 2200X100 (TURF) RWY 05: Thid dspicd 200'. Trees. RWY 23: Thid dspicd 415'. Trees.

AIRPORT REMARKS: Unattended, Arpt CLOSED Nov 14-Apr 15 and when snow covered, Remote ctl model acft ops S end Rwy 05-23. Deer on and invof arpt. Rwy 36 first 200' soft sand. Rwy 05-23 and Rwy 18-36 and dsplcd thids marked with 3' yellow cones.

COMMUNICATIONS: CTAF 122.9

MACKINAC CO

(See ST IGNACE)



MADDS N42°29.69′ W83°05.60′ NOTAM FILE DET. DETROIT DE 149° 6.3 NM to Coleman A. Young Muni. Unmonitored.

MAIDENS (See WILLIAMSTON)

MALLY N42°07.61′ W86°18.80′ NOTAM FILE BEH.

NDB (LOM) 397

 $274^{\circ}\,5.1$ NM to Southwest Michigan Rgnl. Unmonitored.

MANCELONA MUNI N44°55.50′ W85°04.00′

(D9Ø) 2 N UTC-5(-4DT) 1133 NOTAM FILE LAN

RWY 18-36: 3400X140 (TURF) RWY 18: Trees. RWY 36. Tree

RWY 10-28: 2050X120 (TURF) RWY 10: Thid dsplcd 830'. Trees.

COMMUNICATIONS: CTAF 122.9

marked with 3' yellow cones. Rwy 10-28 marked with tires.

MANCHESTER ROSSETTIE (75G)

3 N UTC-5(-4DT) N42°11.70′ W84°01.85′ 1005 NOTAM FILE LAN RWY 18-36: 2480X100 (TURF) LIRL (NSTD)

RWY 36: Thid dspicd 665'. Road. Rgt tfc. AIRPORT REMARKS: Attended irregularly, Field gets muddy in spring, Rwy on rolling terrain, Rwy 18-36 NSTD LIRL due to spacing. Rwy 18-36 marked with 2' yellow cones and painted tires. **COMMUNICATIONS: CTAF 122.9**

MANISTEE N44°16.24′ W86°15.24′. NOTAM FILE MBL. (L) VOR/DME 111.4 MBL Chan 51

at Manistee Co-Blacker, 618/5W, AWOS-3. VOR unusable $140^{\circ}-165^{\circ}$ byd 20 NM below 5000'. DME unusable $320^{\circ}-070^{\circ}$ byd 20 NM below 3000'. RCO 122.1R 111.4T (LANSING RADIO)

RWY 28: Thid dsplcd 200'. Tree. AIRPORT REMARKS: Unattended. Arpt CLOSED when snow covered and Nov thru Apr 15 rwys not plowed. Rwy 18-36 DETROIT COPTER

CHICAGO

GREEN BAY

GREEN BAY

L-28I. 31B

(MBL)

FUEL 100LL, JET A Class III, ARFF Index A 621 B S2 NOTAM FILE MBI RWY 09-27: H5500X100 (ASPH) S-26, D-31 HIRI RWY 09: REIL. PAPI(P4L)-GA 3.0° TCH 30'. Tree.

3 NE

carriers 10-30 seats only. Unscheduled air carriers over 30 seats

H-2L, L-28I, 31B

GREEN RAY

GREEN BAY

H-2L, L-31B ΙΔΡ

ΙΔΡ

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UTC-5(-4DT) N44°16.35′ W86°14.81′

N45°58.48' W86°10.31'

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RWY 27: MALSR. PAPI(P4L)-GA 3.0° TCH 45'. Trees. RWY 18-36: H2721X75 (ASPH) S-12.5

MANISTEE CO—BLACKER

RWY 18: PAPI(P2L)-GA 4.0° TCH 30'. Trees.

RWY 36: PAPI(P2L)-GA 4.0° TCH 26'. Tree. AIRPORT REMARKS: Attended Apr-Oct 1300-0100Z‡ Nov-Mar

1300-2200Z‡. Deer and birds on and invof arpt. ARFF unavbl exc

air carrier, others 24 hr PPR 231-723-4351. ARFF monitoring CTAF during air carrier ops. Part 139 certified for scheduled air

not authorized. Maintenance personnel monitoring CTAF during work on twys and rwys. Twys marked with reflectors. ACTIVATE HIRL Rwy 09-27 and MIRL Rwy 18-36, REIL Rwy 09, PAPI Rwys 09, 18, 27 and 36-CTAF.

WEATHER DATA SOURCES: AWOS-3 111.4 MBL (231) 723-6073. COMMUNICATIONS: CTAF/UNICOM 122.8 RCO 122.1R 111.4T (LANSING RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE MBL.

(L) VOR/DME 111.4 MBL Chan 51 N44°16.24"

W86°15.24' at fld. 618/5W. AWOS-3. JEPOT NDB (LOM) 254 MB N44°16.25′ W86°08.57′ 276° 4.5NM to fld.

SCHOOLCRAFT CO

Rwy 27. ILS 108.35 I-MBL LOM JEPOT NDB. Unmonitored 0100-1300Z±. **MANISTIQUE** 3 NE

UTC-5(-4DT)

(ISO) FUEL 100LL, JET A NOTAM FILE ISQ RWY 10-28: H5001X100 (ASPH) S-26 D-45

RWY 10: PAPI(P2L)-GA 3.0° TCH 35'. Trees.

RWY 28: REIL. PAPI(P2L)-GA 3.0° TCH 38'. Trees.

RWY 01-19: H2501X50 (ASPH) S-26, D-45 RWY 01: Trees. RWY 19: Trees.

AIRPORT REMARKS: Attended Mon-Fri 1200-2200Z‡, Sat-Sun

1330-2300Z‡. For arpt attendance call 906-341-5522 during

attendance hrs; or 906-341-0515 after hours (manager residence). Birds and deer on and invof arpt. Rwy 19 100'

unmarked p-line 1 mile north of rwy end. Ramp and twy pavement

(See FOWLERVILLE)

cracked with grass growing in cracks. Rwy 10 PAPI OTS indef. ACTIVATE MIRL Rwy 10-28 and PAPI Rwy 10 and Rwy 28 and REIL Rwy 28-CTAF. Rwy 28 south side REIL OTS indef. WEATHER DATA SOURCES: AWOS-3 110.4 ISO (906) 341-8585.

COMMUNICATIONS: CTAF/UNICOM 122.8 RCO 122.25 (GREEN BAY RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE ISO. (L) VORW/DME 110.4 ISQ Chan 41 N45°58.58°

W86°10.41' at fld. 680/5W. AWOS-3.

MAPLE GROVE (See FOWLERVILLE)

MARE GROVE HELIPORT

MARINE CITY (76G) 4 W UTC-5(-4DT) N42°43.25′ W82°35.75′ B S4 613

DETROIT 1-30F

DETROIT

FUEL 100LL, JET A TPA-1413(800) NOTAM FILE LAN RWY 04-22: H3100X60 (ASPH) MIRL (NSTD)

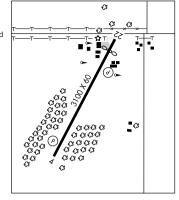
RWY 04: REIL. PAPI(P2L)-GA 4.0° TCH 25'. P-line.

RWY 22: PAPI(P2L)-GA 4.0° TCH 25'. Thid dsplcd 295'. Brush.

AIRPORT REMARKS: Attended continuously. Rwy 04-22 NSTD MIRL Ictd 23' from rwy edge.

COMMUNICATIONS: CTAF/UNICOM 123 O RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

PECK (H) VORTAC 114.0 ECK Chan 87 N43°15.36' W82°43.08' 177° 32.5 NM to fld. 810/7W. HIWAS.



MARLETTE (77G) 1 SW UTC-5(-4DT) N43°18.71′ W83°05.46′

S4 FUEL 100LL NOTAM FILE LAN

RWY 09-27: H3796X75 (ASPH) MIRL (NSTD) RWY 09: PAPI(P4R)-GA 3.0° TCH 20'. Trees.

RWY 27: REIL. PAPI(P4R)-GA 3.0° TCH 20'. Trees.

RWY 01-19: H3497X75 (ASPH) MIRL RWY 01: PAPI(P4L)-GA 3.0° TCH 20'.

RWY 19: PAPI(P4L)-GA 3.0° TCH 20'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. Glider ops on and invof arpt. Rwy 09-27 NSTD MIRL; Igts last 2000' not split amber/white lens. ACTIVATE MIRL Rwy 01-19 and Rwy 09-27;

PAPI and REIL Rwy 27-CTAF.

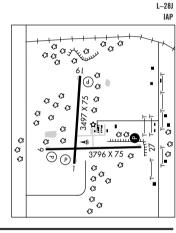
COMMUNICATIONS: CTAF/UNICOM 122.8

PECK RCO 122.1R 114.0T (LANSING RADIO) (R) CLEVELAND CENTER APP/DEP CON 127.7

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

PECK (H) VORTAC 114.0 ECK Chan 87 N43°15.35'

W82°43.08' 289° 16.7 NM to fld. 810/7W. HIWAS.



MARQUIFTTF

SAWYER INTL (SAW) 17 S UTC-5(-4DT) N46°21.22′ W87°23.72′

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at fld. 1196/4W.

H-2K, L-31A

GREEN BAY

IAP. AD

1221 B S4 FUEL 100LL, JET A OX 1.2 LRA ARFF Index—See Remarks NOTAM FILE SAW RWY 01-19: H12366X150 (ASPH-CONC-GRVD) S-75, D-175, 2S-175, 2D-490 HIRL

RWY 01: MALSR. PAPI(P4L)-GA 3.0° TCH 66'. RWY 19: REIL, PAPI(P4L)-GA 3.0° TCH 62'.

0.4% down. RUNWAY DECLARED DISTANCE INFORMATION

RWY 01: TORA-12366 TODA-12366 ASDA-12366 LDA-12366 RWY 19: TORA-12366 TODA-12366 ASDA-12366 LDA-12366

AIRPORT REMARKS: Attended 1000-0100Z±. For svc after hrs call

906-222-3062 (pager). Fuel avbl 24 hrs with credit card, multi-svc and av card. Self svc fuel located adjacent FBO ramp.

Index D avbl. Call arpt mgr at 906-458-6336 to confirm

FBO syc after hrs contact 906-222-3062. Birds and deer on and invof arpt. PAEW on arpt monitor 119.975 (CTAF). Class I, ARFF availability of personnel and equipment. Air carrier ops involving acft with more than 30 passenger seats are not authorized in excess of 15 minutes before or after scheduled arrival/dep times without prior coordination with arpt manager. 48 hrs prior to

unscheduled air carrier operations with more than 30 passenger seats call arpt manager 906-458-6336. General aviation and charter acft parking avbl at general aviation terminal only, lctd SE

corner of arpt. North entrance to air carrier ramp, south of ARFF/SRE building, closed Nov-Mar. S half of air carrier terminal ramp not plowed Oct-Apr. Frequent snow removal ops in progress various times Oct-Apr. Monitor CTAF. Twy A north of Twy C clsd 15 Nov-15 Apr. Twy B clsd 15 Nov-15 Apr. Twy G clsd 15 Nov-15 Apr. North air carrier ramp entrance/exit clsd

15 Nov-15 Apr. ACTIVATE HIRL Rwy 01-19, MALSR Rwy 01 and REIL Rwy 19-119.975. All lighting pilot controlled CTAF 119.975 when ATCT closed. Rwy 01-19 75' paved shoulders each side. Ramp fees in effect. Ramp fees may be waived with fuel purchase. FBO syc after hrs ctc 906-222-3062 (pager).

WEATHER DATA SOURCES: AWOS-3 118.375 (906) 346-5126.

COMMUNICATIONS: CTAF 119.975 UNICOM 122.7

SAWYER RCO 123.6 (GREEN BAY RADIO)

R MINNEAPOLIS CENTER APP/DEP CON 119.1

SAWYER TOWER 119.975 (1100-0300Z‡) AIRSPACE: CLASS D svc 1100-0300Z tother times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE SAW.

(H) VORW/DME 117.1 SAW Chan 118 N46°21.54′ W87°23.85′

VOR portion unusable 330°-090° byd 10 NM blo 8000'. DME unusable 250°-090° byd 30 NM blo 4500'. SUOMI NDB (LOM) 410 SO N46°15.71′ W87°24.97′ 013° 5.6NM to fld.

ILS 110.1 I-SOU Rwy 01. Class IE. LOM SOUMI NDB. ILS unmonitored. COMM/NAV/WEATHER REMARKS: No emergency frequencies at twr.

181

DETROIT

DETROIT

CHICAGO

L-28J IAP

MARSHALL BROOKS FLD

UTC-5(-4DT) N42°15.07′ W84°57.33′ (RMY) 1 S FUEL 100LL. TPA-1941(1000) NOTAM FILE RMY

L-28J IAP

RWY 10-28: H3501X75 (ASPH) S-20 MIRI RWY 10: PAPI (P4L)-GA 4.0° TCH 25'. Tree. RWY 28: PAPI (P4R)-GA 4.0° TCH 36'. Trees. AIRPORT REMARKS: Attended 1300Z‡-dusk except major holidays.

Parachute activity on and invof arpt. Snow removal in progress 15 Nov-15 Apr. Vehicle operators monitor CTAF. Noise abatement 1150. CAUTION: Deer on and invof arpt. Extensive glider and

ultralight activity on and invof arpt. Ultralight acft ops south of

procedures in effect ctc arpt manager 269-781-5183 extension Rwy 10-28. Ultralight acft fly left hand pattern 500' AGL, S of Rwy 10-28. MIRL Rwy 10-28 and H1 perimeter lgts preset low ints, to increase ints ACTIVATE-CTAF.

WEATHER DATA SOURCES: AWOS-3 120.025 (269) 781-9070. COMMUNICATIONS: CTAF/UNICOM 122.8 BATTLE CREEK RCO 122.2 (LANSING RADIO) (R) KALAMAZOO APP/DEP CON 119.2 (1100-0400Z‡)

(R) CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE BTL. BATTLE CREEK (T) VORTACW 109.4 BTL Chan 31 N42°18.59′

W85°15.14' 107° 13.7 NM to fld. 922/2W.

. . • • HELIPAD H1: H50X50 (CONC) S-12.5 PERIMETER LGTS

HELIPAN H1. Pole HELIPORT REMARKS: 150' Igtd water twr 3000' south of pad. 21' Igtd pole 195' northeast of pad. No snow removal.

MASON JEWETT FLD (TEW) 1 SE UTC-5(-4DT) N42°33.95′ W84°25.39′ FUEL 100LL, JET A NOTAM FILE TEW

RWY 10-28: H4000X75 (ASPH) S-12.5 MIRI RWY 10: REIL. PAPI(P4L)-GA 4.0° TCH 35'. Antenna. Rgt tfc.

RWY 28: REIL. PAPI(P4L)-GA 3.0° TCH 25'. Road. AIRPORT REMARKS: Unattended, Powered parachutes prohibited, Deer

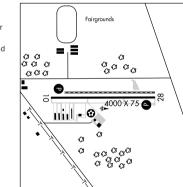
and birds on and invof arpt. Hangar space as avbl; confirm by prior arrangement. MIRL Rwy 10-28; PAPI and REIL Rwys 10 and 28 and rotating bcn ops SS-0500Z‡, after 0500Z‡ ACTIVATE—CTAF. Rwy 28 PAPI unusable byd 7° right and left of WEATHER DATA SOURCES: AWOS-3 119.425 (517) 676-5607.

R LANSING APP/DEP CON 118.65 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

COMMUNICATIONS: CTAF/UNICOM 122.7

LANSING (L) VORTACW 110.8 LAN Chan 45 N42°43.04' W84°41.85' 132° 15.2 NM to fld. 887/5W.

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MASON CO (See LUDINGTON)

MBS INTL (See SAGINAW)

1022

MECOSTA MORTON (27C) 2 W NOTAM FILE LAN

RWY 09-27: 2027X100 (TURF) RWY 09: Thid dsplcd 546'. Road. RWY 27: Brush.

RWY 03-21: 2010X100 (TURF) RWY 03: Thid dspicd 760'. Trees.

RWY 21: Thid dspicd 460'. Trees. AIRPORT REMARKS: Unattended. Arpt CLOSED when rwys are snow covered or with standing water. No winter snow

UTC-5(-4DT)

removal. Model aircraft area east of Rwy 03-21 intersection. Rwy 03-21 and dsplcd thld marked with 18 inch

yellow cones. Rwy 09-27 and dsplcd thid marked with 18 inch yellow cones. COMMUNICATIONS: CTAF 122.9

N43°37.75′ W85°15.75′

MENOMINEE-MARINETTE TWIN CO (MNM) 1 NW UTC-6(-5DT) N45°07 60' W87°38 31'

B S2 FUEL 100LL, JET A NOTAM FILE MNM

RWY 03-21: H6000X100(ASPH) S-80, D-100, 2S-127,

2D-175 HIRL RWY 03: MALSR. RWY 21: PAPI(P4L)-GA 3.0° TCH 43'.

RWY 14-32: H5100X100 (ASPH-PFC) DT-60 MIRL 0.3% up NW

RWY 14: VASI(V4L)—GA 3.0° TCH 41'. Trees.

RWY 32: VASI(V4L)-GA 3.0° TCH 39'. Tree.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡, Sat

1400-1800Z‡, for attendant after hrs call 715-938-2006 or 906-282-0260, 24 hr self-serve 100LL with major credit card.

S-30, D-35,

Deer and gulls on and invof arpt. Avoid over flight of noise sensitive area lctd 7 miles S of aprt. 48 hr PPR for unscheduled

air carrier ops with more than 30 passenger seats call 906-863-8408. ACTIVATE HIRL Rwy 03-21, MIRL Rwy 14-32;

VASI Rwy 14, and Rwy 32, PAPI Rwy 21; MALSR Rwy 03-CTAF. WEATHER DATA SOURCES: AWOS-3 109.6 MNM (906) 863-8801.

RCO 122.1R 109.6T (GREEN BAY RADIO) GREEN BAY APP/DEP CON 119.5 (1130-0530Z±)

COMMUNICATIONS: CTAF/UNICOM 122.8

R MINNEAPOLIS CENTER APP/DEP CON 125.55 (0530-1130Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE MNM.

Rwy 03.

(L) VOR/DME 109.6 MNM Chan 33 N45°10.81′ W87°38.83′ 173° 3.2 NM to fld. 650/00E. AW0S-3. TRIBE NDB (LOM) 239 TN N45°03.70′ W87°41.76′ 035° 4.6 NW to fld.

LOM TRIBE NDB. ILS unmonitored.

MERILLAT (See TECUMSEH)

ILS 108.7

MEYERS-DIVER'S (See TECUMSEH)

I-TNO

MIDLAND

JACK BARSTOW (IKW) 3 NW UTC-5(-4DT) N43°39.78' W84°15.68'

Class IB

FUEL 100LL, JET A S4 NOTAM FILE LAN RWY 06-24: H3801X75 (ASPH) S-24 MIRL 0.4% up NE

RWY 06: REIL. PAPI(P2L). Road.

RWY 24: REIL. PAPI(P2L). Trees. MIRL

RWY 18-36: H3001X75 (ASPH) S-24

RWY 18: REIL. PAPI(P2L). Trees.

RWY 36: REIL. PAPI(P2L). Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z‡, Sat-Sun

1300-2100Z‡. Arpt unattended major holidays. Deer on and invof arpt. Occasional ultralight activity. Noise sensitive area S of arpt; use preferred Rwy 06-24. MIRL Rwy 06-24 and Rwy 18-36 preset

on low ints dusk-0400Z‡. After 0400Z‡ ACTIVATE-CTAF. To increase ints and ACTIVATE PAPI and REIL Rwys 06, 24, 18 and 36-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.525 (989) 835-5841.

COMMUNICATIONS: CTAF/UNICOM 122.8

R SAGINAW APP/DEP CON 126.45 (1100-0400Z‡)

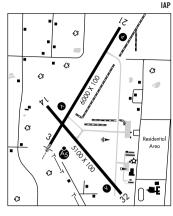
R CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z‡)

GCO 121.725 (SAGINAW CLNC and FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE MBS.

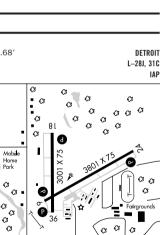
SAGINAW (L) VORW/DME 112.9 MBS Chan 76 N43°31.90'

318° 11.2 NM to fld. 663/3W. HIWAS. W84°04 64' COMM/NAV/WEATHER REMARKS: GCO OTS indef.



GREEN RAY

H-2K I-31B



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RWY 27: Thid dsplcd 784'. Trees.

LAKE HIIRON

DETROIT

COPTER

LAKE HURON

L-28J

IAP

MIO OSCODA CO (51M) 2N UTC-5(-4DT) N44°40.83' W84°07.50' 1050 NOTAM FILE LAN

RWY 09-27: 2800X90 (DIRT)

COMMUNICATION: CTAF 122.9

(TTF)

MONROE CUSTER

616

RWY 09: Thid dspicd 978'. Trees.

2 NW

AIRPORT REMARKS: Unattended, Arpt CLOSED Dec thru Apr except PPR; confirm rwy condition, Rwy 09-27 sfc rough with large areas of soft sand on rwy. Rwy 09-27 marked with 3' yellow cones. ACTIVATE LIRL Rwy 09-27-CTAF.

LIRI

UTC-5(-4DT) N41°56.39′ W83°26.08′

S4 FUEL 100LL, JET A OX 1 NOTAM FILE TTF

RWY 03-21: H4997X100 (ASPH) S-60, D-80 RWY 03: VASI(V2L)-GA 4.0° TCH 49'. Trees.

RWY 21: REIL. PAPI(P2L)-GA 3.5° TCH 42'. Trees.

AIRPORT REMARKS: Attended 1300Z‡-dusk. ACTIVATE MIRL Rwy 03-21, REIL Rwy 21, VASI Rwy 03 and PAPI Rwy 21-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.075 (734) 384-0259. COMMUNICATIONS: CTAF/UNICOM 122.7

CARLETON RCO 122.1R 115.7T (LANSING RADIO)

R DETROIT APP/DEP CON 134.3 GCO 121.725 (DETROIT METRO CLNC and FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

CARLETON (H) VORTAC 115.7 CRL Chan 104 N42°02.88' W83°27.45' 174° 6.6 NM to fld. 629/3W. HIWAS.

MOORESTOWN AIRPARK

1213 NOTAM FILE LAN

RWY 09: Thid dsplcd 399'. Trees.

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RWY 03-21: 2797X100 (TURF) RWY 03: Thid dsplcd 799'. Tree. RWY 21: Thid dsplcd 998'. Trees. RWY 09-27: 2599X100 (TURF)

(6YØ) 1 SE

RWY 27: Thid dspicd 429'. Road. AIRPORT REMARKS: Attended Apr-Nov dawn-dusk. No snow removal in winter. Open winter months to ski equipped acft only, Rwy 03-21 marked with 3' vellow cones, Rwy 09-27 marked with 3' vellow cones,

UTC-5(-4DT) N44°27.75′ W84°59.75′

COMMUNICATIONS: CTAF/UNICOM 122.8

MOUNT PLEASANT MUNI

(MOP) 2 NE S4 FUEL 100LL, JET A NOTAM FILE MOP 755 R

RWY 09-27: H5001X100 (ASPH) S-50, D-65, 2S-82, 2D-118 MIRL

UTC-5(-4DT)

N43°37.30′ W84°44.24′

RWY 27: REIL. PAPI(P4L)-GA 3.0° TCH 35'. RWY 09: Trees.

RWY 05-23: 2500X160 (TURF) RWY 05: Tree. RWY 23: Trees.

AIRPORT REMARKS: Attended 1300Z‡-dusk, Fuel 24 hour major credit card self svc. Deer and birds on and invof arpt. Parachute

Jumping. Rwy 27 noise abatement: climb to 1500' AGL before turning over city. Rwy 05-23 marked with 3' yellow cones. ACTIVATE MIRL Rwy 09-27, REIL Rwy 27 and PAPI Rwy 27-CTAF.

WEATHER DATA SOURCES: AWOS-3 110.6 MOP (989) 773-2885. COMMUNICATIONS: CTAF/UNICOM 123.0

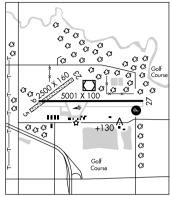
RCO 122.6 (LANSING RADIO)

R SAGINAW APP/DEP CON 126.45 (1100-0400Z‡)

CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

(L) VORW/DME 110.6 MOP Chan 43 N43°37.37' W84°44.24' at fld. 752/5W. AWOS-3.

DME portion unusable byd 33 NM blo 4000'.



DETROIT

GREEN BAY

ΙΔΡ

H-2L. 10F. L-28J

MUNISING

HANLEY FLD (5Y7) 3 SE UTC-5(-4DT) N46°21.25′ W86°37.26′ В NOTAM FILE GRB

RWY 18-36: 4000X120 (TURF)

RWY 18: Trees.

RWY 36: Trees.

AIRPORT REMARKS: Attended irregularly May-Nov. Arpt CLOSED Nov-May 14. Birds and deer on and invof arpt. Rwy 18-36 marked with cones.

COMMUNICATIONS: CTAF 122.9

CHICAGO

MICHIGAN

4 S UTC-5(-4DT) N43°10.13' W86°14.26' S4 FUEL 100LL, JET A OX 2 Class I, ARFF Index A R NOTAM FILE MKG

H-5F 10F I-28I IAP. AD

RWY 06-24: H6501X150 (ASPH-PFC) S-100, D-160, 2S-175, 2D-300 RWY 06: REIL. VASI(V4L)-GA 3.0° TCH 45'. Trees.

2D-210 HIRL RWY 14: REIL. PAPI(P4L)—GA 3.0° TCH 45'.

RWY 32. MAISR Tree

(MKG)

MUSKEGON CO

RUNWAY DECLARED DISTANCE INFORMATION

RWY 06: TORA-6501 TODA-6501 ASDA-6501 LDA-6501 RWY 24: TORA-6501 TODA-6501 ASDA-6501 LDA-6501

RWY 24: MALSR, VASI(V4L)-GA 3.0° TCH 51', Tree. RWY 14-32: H6100X150 (ASPH-PFC) S-80, D-120, 2S-165,

AIRPORT REMARKS: Attended 1100-0200Z±, other hrs call

231-798-2126. Rwv 14-32 CLOSED between 0400Z‡ and 1100Z‡ daily. Deer and birds on and invof of arpt. 24 hr PPR for

32-CTAF. Ldg fee.

unscheduled air carrier ops with more than 30 passenger seats between 0400-1100Z‡, call airport manager 231-798-4596. After hours 231-798-1329. VASI Rwy 06, Rwy 24, PAPI Rwy 14 opr continuously. When twr clsd, ACTIVATE HIRL Rwy 06-24 and Rwy 14-32, REIL Rwy 06 and Rwy 14, MALSR Rwy 24 and Rwy

WEATHER DATA SOURCES: ASOS (231) 798-1317, HIWAS 115,2 MKG. COMMUNICATIONS: CTAF 126.25 ATIS 124.3 UNICOM 122.95 RCO 122.5 (LANSING RADIO)

(R) APP/DEP CON 118.2 North of V-2. 119.8 South of V-2. (R) CHICAGO CENTER APP/DEP CON 132.27 (0400-1100Z‡)

TOWER 126.25 (1100-0400Z‡) GND CON 121.6

AIRSPACE: CLASS D svc 1100-0400Z tother times CLASS E.

TRSA svc ctc APP CON within 20 NM.

RADIO AIDS TO NAVIGATION: NOTAM FILE MKG.

(L) VORTACW 115.2 MKG Chan 99 N43°10.16′ W86°02.36′ 271° 8.7 NM to fld. 659/1W. HIWAS. MUSKO NDB (LOM) 219 MK N43°07.27′ W86°10.12′ 316°4.2 NM to fld. Unmonitored. LOM unusable byd 10

NM I-MKG Rwy 32. Class IE. LOM MUSKO NDB. LOM unusable byd 10 NM. LOC BC unusable

byd 12° left of course byd 20° right of course. Unmonitored when twr clsd. ILS/DMF 109 5 I_C IH Chan 32 Rwv 24. Class IB. LOC only, Unmonitored when twr clsd. ASR (1100-0400Z‡)

MUSKO N43°07.27′ W86°10.12′ NOTAM FILE MKG.

NDB (LOM) 219 MK 316° 4.2 NM to Muskegon Co. Unmonitored. Unusable byd 10 NM.

NAPOLEON

NAPOLEON

(3NP) 1 NW UTC-5(-4DT) N42°10.25′ W84°15.58′

963 S2 NOTAM FILE LAN

RWY 09-27: 2740X200 (TURF) RWY 09: Thid dspicd 1200'. Road. RWY 27: Trees.

RWY 15-33: 2500X160 (TURF) RWY 15: Thid dspled 290', Road. RWY 33: Thid dsplcd 550'. Trees.

AIRPORT REMARKS: Attended irregularly. Oil tanks S of arpt. Ultralight ops in grass W of Rwy 15-33. Rwy 33 +11'

parked vehicles at the thid and buildings 150' distance, Rwy 09-27 and Rwy 15-33 marked with 3' vellow

cones; dsplcd thids marked with three 3' yellow cones each side of rwy.

COMMUNICATIONS: CTAF 122.9

VAN WAGNEN (6H4) 5W UTC-5(-4DT) N42°09.39' W84°20.06'

980 NOTAM FILE LAN RWY 09-27: 2105X55 (TURF) LIRL

RWY 09: Trees. RWY 27: P-line. AIRPORT REMARKS: Attended continuously. Rwy 09-27 marked with yellow tires.

COMMUNICATIONS: CTAF 122.9

NARTRON FLD (See REED CITY)

Residential C3 C3 C Œ Residential Areo

EC. 23 SEP 2010 to 18 NOV 2010

DETROIT

DETROIT

L-281

CHICAGO

NEWBERRY N46°18.75′ W85°27.81′ NOTAM FILE ERY. (T) VORW/DME 108.2 ERY Chan 19 at Luce Co. 869/6W. AWOS-3.

VOR/DME unmonitored Mon-Fri 2130-1230Z‡ and unmonitored Sat-Sun. RCO 122.4 (GREEN BAY RADIO)

NEWBERRY LUCE CO (ERY) 3 SE UTC-5(-4DT) N46°18.66′ W85°27.43′

NOTAM FILE ERY FUEL 100LL

RWY 11-29: H4304X75 (ASPH) S-8 MIRL 0.5% up W RWY 11: REIL. PAPI(P4L)-GA 3.0° TCH 25. Trees.

RWY 29: REIL. PAPI(P4L)—GA 3.0° TCH 35'. Trees.

RWY 04-22: 2856X150 (TURF) RWY 04: Thid dspicd 936'. Trees. RWY 22: Trees.

AIRPORT REMARKS: Attended Mon-Fri 1330-2100Z±. For svcs other

times call 906-293-3703. Rwy 04-22 CLOSED Nov-Mar and when snow covered. Rwy 04-22 marked with 3' yellow cones.

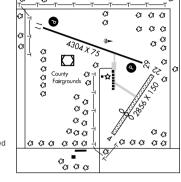
ACTIVATE MIRL Rwy 11-29; REIL Rwy 11 and Rwy 29; PAPI Rwy 11 and Rwy 29 and windcone—CTAF.

WEATHER DATA SOURCES: AWOS-3 108.2 ERY (906) 293-2979. COMMUNICATIONS: CTAF/UNICOM 122.8

NEWBERRY RCO 122.4 (GREEN BAY RADIO) RADIO AIDS TO NAVIGATION: NOTAM FILE ERY. NEWBERRY (T) VORW/DME 108.2 FRY Chan 19 N46°18.75'

W85°27.81' at fld. 869/6W. AWOS-3.

VOR/DME unmonitored Mon-Fri 2130-1230Z‡ and unmonitored Sat-Sun



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GREEN RAY

GREEN BAY

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L-31B

IAP

I-31B

NEW HUDSON

OAKLAND SOUTHWEST (Y47) 1 SW UTC-5(-4DT) N42°30.19′ W83°37.42′ FUEL 100LL NOTAM FILE LAN S4

RWY 08-26: H3128X40 (ASPH) LIRI

RWY 08: VASI(V2R)-GA 3.0°. Thid dsplcd 1266'. Brush.

RWY 26: VASI(V2L)-GA 3.0°. Thid dsplcd 864'. Trees.

AIRPORT REMARKS: Attended 1330Z‡-dusk, Occasional 4"-6" drop off on rwy and twy shoulders. Trees and brush in primary surface

70'-120' left and right. ACTIVATE LIRL Rwy 08-26 CTAF 5 times. COMMUNICATIONS: CTAF/UNICOM 122.7

R DETROIT APP/DEP CON 127.5

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

SALEM (L) VORTAC 114.3 SVM Chan 90 N42°24.53'

W83°35.65' 350° 5.8 NM to fld. 950/3W.

DETROIT COPTER L-28J. A IAP

NEWMAN'S (See KALAMAZOO)

RWY 33: REIL. Trees. 03 RWY 04-22: H3315X50 (ASPH) S-8 €3 RWY 04: Thid dspicd 900'. Road. RWY 22: Thid dsplcd 750', Trees. AIRPORT REMARKS: Attended 1400-2200Z‡, Arpt unattended major a holidays. Rwy 04-22 pavement cracked and broken. +51 obstruction Igtd poles, in Rwy 15 transition zone. Trees between Rwy 04 and Rwy 33 and between Rwy 33 and Rwy 22 obstruct a æ view of Rwy ends. Rwy 04 +51' tree, 290' distance, 120' left, a apch ratio 2:1, REIL Rwy 15 and Rwy 33 OTS indef, TPA piston acft 1750(1000), turbine acft 2250(1500). ACTIVATE MIRL Rwy 15-33. REILS Rwy 15 and Rwy 33-CTAF. Ø ~ G G G COMMUNICATIONS: CTAF/UNICOM 122.8 C3 €3 R SOUTH BEND APP/DEP CON 118.55 (Sun-Fri 1030-0500Z, Sat €3 1030-0445Z), other times ctc R CHICAGO CENTER APP/DEP CON 127.55 GCO 121,725 (SOUTH BEND CLNC and FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. 046° 5.8 NM to fld. 804/00E. HIWAS GIPPER (H) VORTACW 115.4 GIJ Chan 101 N41°46.12′ W86°19.11′

NORTHPORT WOOLSEY MEMORIAL (5D5) 3 NE UTC-5(-4DT) N45°09.86' W85°34.53' GREEN BAY

RWY 09-27: 3663X120 (TURF) LIRL RWY 09: Thid dsplcd 266', Road. RWY 27. Trees

NOTAM FILE LAN

COMMUNICATIONS: CTAF 122.9

RWY 16-34: 2670X150 (TURF) RWY 16: Thid dspicd 800'. Trees. RWY 34: Thid dspicd 269', Trees. AIRPORT REMARKS: Unattended, Arpt CLOSED Nov-Mar and when snow covered, Birds and deer on and invof arpt. Rwy

09-27 slopes up E to W, and Rwy 16-34 slopes up N to S. Rwy 09-27 and Rwy 16-34 and dsplcd thids marked with 3' yellow cones. ACTIVATE LIRL Rwy 09-27-122.9.

NUNICA

NILES

S4

RWY 15: REIL. Thid dspicd 300'. Road.

HAT FIELD (5N7) 2 NW UTC-5(-4DT) N43°05.83′ W86°05.68′ S4 NOTAM FILE LAN.

RWY 08-26: 3600X100 (TURF) RWY 08: Thid depict 600' Trees RWY 26: Thid dspicd 1200'. Tree.

JABLONSKI (33C) 1 W UTC-5(-4DT) N43°04.94′ W86°05.69′

dsplcd thids marked with 3' yellow cones. **COMMUNICATIONS: CTAF 122.9**

NOTAM FILE LAN RWY 09-27: 2995X100 (TURF) LIRL RWY 09: Thid dspicd 998'. Tree. AIRPORT REMARKS: Attended irregularly. Deer on and invof rwys. Rwy 09-27 rough with mole hills. For LIRL Rwy 09-27

call arpt manager 616-837-6282. Rwy 09-27 and dsplcd thlds marked with 3' yellow cones. COMMUNICATIONS: CTAF 122.9 OAKLAND CO INTL (See PONTIAC)

OAKLAND SOUTHWEST (See NEW HUDSON)

OAKLAND/TROY (See TROY)

OCEANA CO (See HART/SHELBY)

OJIBWA AIRPARK (See WEIDMAN) **OLSTE** N43°27.69′ W84°10.79′ NOTAM FILE MBS. NDB (LOM) 257 MB 050° 6.1 NM to MBS Intl. Unmonitored. Unusable byd 10 NM and between 150°-180°.

CHICAGO AIRPORT REMARKS: Attended irregularly. Arpt CLOSED Nov thru Mar. Deer and birds on and invof arpt. Rwy 08-26 and

EC. 23 SEP 2010 to 18 NOV 2010

RWY 27: Thid dsplcd 796'. Fence.

CHICAGO

DETROIT

IAP

NAWAY LEO E. GOETZ CO 1 N UTC-5(-4DT) LAKE HIIRON (Y96) N45°22.25′ W84°13.50′ NOTAM FILE LAN RWY 15-33: H2600X60 (ASPH) RWY 15: Road. RWY 33: Trees. RWY 03-21: 1400X100 (TURF) RWY 03: Trees RWY 21. Trees AIRPORT REMARKS: Unattended. Confirm snow removal and winter conditions phone 989-734-2216; or arpt manager residence 989-734-4309. 11' p-line 750' from thld 125' R of centerline. Rwy 03-21 marked with 3' yellow cones COMMUNICATIONS: CTAF 122.9 ONONDAGA **GORILLA** 2 SW UTC-5(-4DT) N42°25.50′ W84°34.68′ DETRIOT NOTAM FILE LAN Not insp HELIPAD H1: 75X50 (TURF) HELIPORT REMARKS: Attended irregularly. Marked with yellow steel plates. 45' trees 180'W of pad. COMMUNICATIONS: CTAF 122.9 ONTONAGON CO-SCHUSTER FLD (OGM) UTC-5(-4DT) N46°50.73′ W89°22.03′ 3 W **GREEN BAY** 669 FUEL 100LL L-14J NOTAM FILE GRB RWY 17-35: H3500X75 (ASPH-AFSC) S-12 MIRL 0.7% up S IAP RWY 17: REIL. PAPI(P2L) - GA 3.45° TCH 25'. Trees. RWY 35: REIL, PAPI(P2L) - GA 3.45° TCH 25', Trees. ß C3 C3 ¢ €3 *(*3 AIRPORT REMARKS: Unattended, 24 hr self serve fuel with VISA or 63 Master Charge. Deer and birds on and invof arpt. MIRL Rwy 17-35 43 €3 €3 and PAPI Rwy 17 and Rwy 35 dusk-0400Z‡; after 0400Z‡ 03 03 03 ACTIVATE-CTAF. 03 03 ß COMMUNICATIONS: CTAF 122.9 €3 €3 ¢ *(*3 R MINNEAPOLIS CENTER APP/DEP CON 127.2 a y Œ RADIO AIDS TO NAVIGATION: NOTAM FILE IWD. ¢ €3 Œ IRONWOOD (L) VORTACW 108.8 IWD a Chan 25 N46°31.94' €3 €3 ß €3 W90°07.55′ 058° 36.6 NM to fld. 1230/1E. HIWAS. €3 G (3 NDB (MHW) 375 OGM N46°51.01′ W89°21.91′ €3 €3 Unmonitored. NOTAM FILE GRB. (3 Œ Œ 63 €3 **43** G (G a Œ ଫ ଫ ଫ Œ

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MICHIGAN

(See MIO)

OSCODA CO

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CHICAGO

N44°26.95'

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OSCODA-WURTSMITH (OSC) 3 NW UTC-5(-4DT) N44°27.09′ W83°23.65′ S4 FUEL 100LL, JET A OX 2 NOTAM FILE OSC 633

RWY 06-24: H11800X200 (ASPH-GRVD) S-155, D-330, 2S-175, 2D-550 HIRI

RWY 06: PAPI(P4L)-GA 3.0° TCH 75'. Tree. RWY 24: MALSR. PAPI(P4L)-GA 3.0° TCH 72'.

AIRPORT REMARKS: Attended Mon-Fri dawn-dusk, During dalgt hrs

tailwinds may exist over approach ends Rwy 06 and Rwy 24 simultaneously. Seagulls and migratory birds on and invof arpt. Be

alert for potential jet blast on Twy A invof losco ramp. ACTIVATE HIRL Rwy 06-24, PAPI Rwy 06 and Rwy 24 and MALSR Rwy 24-CTAF. WEATHER DATA SOURCES: AWOS-3 116.1 ASP (989) 739-1310

COMMUNICATIONS: CTAF/UNICOM 123 O MINNEAPOLIS CENTER APP/DEP CON 125.475

RADIO AIDS TO NAVIGATION: NOTAM FILE OSC. AU SABLE (H) VORW/DME 116.1 ASP Chan 108

W83°23.66' at fld. 625/7W. AWOS-3.

ILS 108.5 I-LJU Rwy 24. LOC and Glide Slope unmonitored.

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OTTAWA EXECUTIVE (See ZEELAND)

OWOSSO COMMUNITY (RNP) 2 E UTC-5(-4DT) S4 FUEL 100LL NOTAM FILE RNP

RWY 10-28: H4300X75 (ASPH) S-18 MIRL

RWY 10: REIL. PAPI(P4L)-GA 3.0° TCH 20'. Trees. RWY 28: REIL. PAPI(P4L)—GA 4.0° TCH 20'. Trees.

RWY 18-36: 2599X260 (TURF) RWY 18: Thid dsplcd 396'. Bldg.

RWY 36: Thid dspicd 990'. Trees. RWY 06-24: 2483X130 (TURF)

RWY 06: PAPI(P4R)-GA 3.5° TCH 25'. Thid dsplcd 1057'. Trees. RWY 24. Pole AIRPORT REMARKS: Attended 1400-2200Z‡. Rwy 06-24 and Rwy

and birds on and invof arpt. Rwy 10-28 has numerous cracks. Rwy 06-24 and Rwy 18-36 marked with cones; Rwy 06; Rwy 18; Rwy 36 dsplcd thlds marked with 3 cones each side. ACTIVATE

18-36 CLOSED Dec 1 thru Mar 31 and when snow covered. Deer

MIRL Rwy 10-28, PAPI Rwy 10 and 28 and REIL Rwy 10 and Rwy 28—CTAF WEATHER DATA SOURCES: AWOS-3 118.025 (989)729-2967.

COMMUNICATIONS: CTAF/UNICOM 123.0 FLINT RCO 122.3 (LANSING RADIO)

R FLINT APP/DEP CON 128.55 (N/W of active rwy) 118.8 (E/S of active rwv) (1045-0430Z±) CLEVELAND CENTER APP/DEP CON 126.75 (0430-1045Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE FNT.

FLINT (H) VORTACW 116.9 FNT Chan 116 N42°58.01′ W83°44.82′

281° 17.3 NM to fld. 772/6W. COMM/NAV/WEATHER REMARKS: APP CON sectorization based upon Flint rwy usage.

(See ALLEGAN)

PARCHMENT

PADGHAM FLD

TRIPLE H (2H4) 3N UTC-5(-4DT) N42°21.92' W85°33.35' 785 NOTAM FILE LAN

RWY 01-19: 2400X100 (TURF)

RWY 01: Thid dsplcd 400'. Tree. Rgt tfc. RWY 19: Thid dsplcd 968'. Trees.

COMMUNICATIONS: CTAF: 122.9

RWY 09-27: 2600X100 (TURF)

RWY 27: Thid dspicd 1200'. Trees. RWY 09: Trees. Rgt tfc.

AIRPORT REMARKS: Attended irregularly. Deer invof arpt. Rwy 09-27, 80' trees along both rwy edges. Rwy 09-27

fence at west end. Rwy 01-19 and dsplcd thids marked with 3' yellow cones. Rwy 09-27 and dsplcd thid marked with yellow cones. Rwy 01-19 NSTD LIRL not for public use.

€3 N42°59.58' W84°08.31' DETROIT L-28J IAP Rwy 6-24: 2483 X 130 Rwy 10-28: 4300 X 75 13 33

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PAUL C. MILLER-SPARTA (See SPARTA) PAW PAW ALMENA UTC-5(-4DT) N42°15.15′ W85°51.02′ (2C5)3 NF 740 NOTAM FILE LAN RWY 09-27: 3300X100 (TURF) RWY 09: Thid dspicd 1085'. Trees. RWY 27: Thid dspicd 1159'. Trees. AIRPORT REMARKS: Attended irregularly. Occasional deer on rwy. Rwy 09-27 and dsplcd thids marked with 3' yellow cones; dsplcd thids marked with three 3' yellow cones on each side of rwy. COMMUNICATIONS: CTAF 122.9 **PBEAAYE** (See TOPINABEE) PECK N43°15.35′ W82°43.08′ NOTAM FILE LAN. 289° 16.7 NM to Marlette, 810/7W. HIWAS. H-10G, 11A, L-28J

MICHIGAN

(H) VORTAC 114 O FCK

B S4

RWY 32: MALSR. Tree.

2D/2D2-120 MIRL

2D/2D2-120

RWY N5.

RWY 14:

RWY 23:

RWY 32-

721

PARK TOWNSHIP

190

FUEL 100LL, JET A

RWY 14: REIL. VASI(V4L)-GA 3.0° TCH 52'. Trees.

RWY 05: REIL. VASI(V4R)-GA 3.0° TCH 48'. Trees.

RWY 23: REIL, VASI(V4L)—GA 3.0° TCH 45', Road.

TORA-5395 TODA-5395 ASDA-5395

TORA-6512 TODA-6512 ASDA-6512

TORA-5395 TODA-5395 ASDA-5395

unscheduled air carriers with more than 30 passenger seats

except by 24 hr PPR. Deer and gulls occasionally on and invof

arpt. Be alert for snow removal equipment and activity on and

invof rwys during winter months. Twy B1 and E1 CLOSED 1 Nov

thru 15 Apr. MIRL Rwy 05-23 and HIRL Rwy 14-32; REIL Rwys 05

AIRPORT REMARKS: Attended 1100-0400Z‡. Arpt CLOSED to

TORA-6512 TODA-6512 ASDA-6512 LDA-6512

PELLSTON RGNL ARPT OF EMMET CO

N45°34.26′ W84°47.80′

RWY 14-32: H6513X150 (ASPH-GRVD)

RWY 05-23: H5401X150 (ASPH-GRVD)

RUNWAY DECLARED DISTANCE INFORMATION

HIRI

(See HOLLAND)

Chan 87 RCO 122.1R 114.0T (LANSING RADIO)

(PLN)

1 NW

D-65, 2S-82, 2D-82,

UTC-5(-4DT)

Class I. ARFF Index A D-65, 2S-82, 2D-82,

LDA-5395

LDA-5395

N41°55.19′ W83°44.10′

NOTAM FILE PLN

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H-2L, L-31B 03 03 C3 €3 Œ

CHICAGO

DETROIT

LAKE HURON

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and 14 and 23 and MALSR Rwy 32 preset low ints 0530-1000Z‡, after 1000Z‡ to increase ints and ACTIVATE—CTAF. Rwy 05 and Rwy 23 REIL lctd 100' from their respective apch ends. Ldg fee (waived with fuel purchase). WEATHER DATA SOURCES: ASOS 119.025 (231) 539-7700. HIWAS 111.8 PLN. COMMUNICATIONS: CTAF/UNICOM 123.0 RCO 123.6 122.2 (LANSING RADIO) RCO 122.3 (LANSING RADIO)

MINNEAPOLIS CENTER APP/DEP CON 134.6 RADIO AIDS TO NAVIGATION: NOTAM FILE PLN.

Chan 55 N45°37.84′ W84°39.85′ 243° 6.6 NM to fld. 840/6W. HIWAS.

PLN

(L) VORTACW 111.8

VOR unusable 301°-339°. ILS 111.3 I-PLN Rwv 32.

Class IE.

PETERSBURG

GRADOLPH FLD (88G) 2 NW UTC-5(-4DT) 673 R NOTAM FILE LAN

RWY 09-27: 2306X110 (TURF) LIRL (NSTD) RWY 09: Thid dspicd 310'. Trees. RWY 27: Thid dsplcd 230'. P-line. AIRPORT REMARKS: Attended continuously. For LIRL Rwy 09-27 and rotating bcn call 734-279-1679. Rwy 09-27 and

dsplcd thids marked with yellow cones. Rwy 09-27 NSTD LIRL due to lens color and configuration. Rotating bcn OTS indef.

COMMUNICATIONS: CTAF 122.9

NDB (LOM) 269 FN

PETLI N42°58.09′ W83°53.41′ NOTAM FILE FNT.

EC. 23 SEP 2010 to 18 NOV 2010

097° 6.5 NM to Bishop Intl. Unmonitored when twr clsd.

ACTIVATE LIRL Rwv 09-27-CTAF. COMMUNICATIONS: CTAF 122.9 PLAINWELL MUNI 2 N UTC-5(-4DT) (61D) 722 S4 FUEL 100LL NOTAM FILE LAN RWY 09-27: H2650X50 (ASPH) LIRI

RWY 09: Thid dspicd 191'. Expressway. RWY 01-19: 2550X150 (TURF) RWY 01: Thid dspicd 268'. Tree.

PHIRN N42°50.58′ W82°35.80′.

N45°43.36′ W87°13.49′

3 W

NOTAM FILE LAN RWY 09-27: 2565X100 (TURF)

NDR (LOM) 332 PH

NDB (LOM) 344 ES

(521)

RWY 09: Trees.

PIKIF

PINCONNING GROSS

615

AIRPORT REMARKS: Attended irregularly, Rwy 09-27 sfc extensive cracking. For LIRL Rwy 09-27 key 122.8 five times on. Rwy 01-19 and dsplcd thids marked with yellow cones.

COMMUNICATIONS: CTAF/UNICOM 122.8 **PLYMOUTH**

> B S4 FUEL 100LL TPA-1696(1000) RWY 18-36: H2303X75 (ASPH-GRVD) S-12.5 RWY 18: PAPI(P2L)-GA 4.0° TCH 25'. Road. RWY 36: PAPI (P4R)-GA 3.0° TCH 25'. Trees. AIRPORT REMARKS: Attended 1300Z‡-dusk. Fuel 24 hour self serve.

CANTON-PLYMOUTH-METTETAL (1D2)

734-459-0012 for noise abatement procedures. ACTIVATE MIRL Rwy 18-36, PAPI Rwy 18 and Rwy 36-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.7 R DETROIT APP/DEP CON 118.95

Noise sensitive areas N and S of arpt. Ctc arpt manager

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. SALEM (L) VORTAC 114.3 SVM Chan 90 N42°24.53' W83°35.65' 124° 7.1 NM to fld. 950/3W.

UTC-5(-4DT) N42°20.89′ W83°27.38′ NOTAM FILE LAN 0.5% up N

RWY 27: Thid dspicd 775'. Trees.

RWY 19: Thid dspicd 980'. Trees.

2 S

MIRL

IAP **63** €3 €3 ß ß 81 €3 Œ 43 €3 ¢ 03 **43** n 36 333 €3 a

DETROIT

COPTER

L-28J. A

DETROIT

L-28J, A

(See HIGHLAND)

NOTAM FILE PTK.

PONTIAC N42°42.05′ W83°31.97′

(L) VORTAC 111.0 PSI Chan 47 116° 5.4 NM to Oakland Co Intl. 1148/3W.

PONDEROSA HELIPORT

VOR unusable 170°-210°.

RC0 122.15R 111.0T (LANSING RADIO)

PUNTING

OAKLAND CO INTL (PTK) 5 W UTC-5(-4DT) N42°39.94′ W83°25.23′ S4 FUEL 100LL JET A OX 1 LRA Class IV. ARFF Index A

RWY 09R-27L: H6520X150 (ASPH-PFC) S-90, D-200, 2S-175, 2D-280 HIRL DETROIT

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H-10G, L-28J, A

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NOTAM FILE PTK

Williams Lake

5675 X 100

6520 X 150

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Rwy 18-36: 2585 X 75

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RWY 09R: MALSR. PAPI (P4R)-GA 3.0° TCH 45'.

RWY 27L: REIL. VASI(V4L)-GA 3.0° TCH 45', Trees.

RWY 09L-27R: H5675X100 (ASPH-PFC) S-38, D-60, 2D-65

MIRI RWY 09L: REIL. PAPI(P4L).

RWY 27R: REIL, PAPI(P4L)-GA 3.0° TCH 51'.

RWY 18-36: H2585X75 (ASPH)

RWY 18: PAPI(P2L)-GA 3.0°. Thid dsplcd 650'. RWY 36: PAPI(P2L)-GA 3.0°.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 09L: TORA-5675 TODA-5675 ASDA-5675 LDA-5675

RWY 09R: TORA-6520 TODA-6520 ASDA-6520 LDA-6520

RWY 27L: TORA-6520 TODA-6520 ASDA-6520 LDA-6520 RWY 27R: TORA-5675 TODA-5675 ASDA-5675 LDA-5675

AIRPORT REMARKS: Attended continuously. Air carrier ops with more than 30 passenger seats req PPR call arpt manager

248-666-3900. Seaplane Idgs and tkfs on Lake Angelus 4.5

miles ENE is prohibited by local ordinances. Birds and deer on and invof arpt. Control twr unable to see more than 200' S of Rwy 35 thld and Twy G between Twy A and Twy B. Twy H and Twy U

unlighted north of Rwy 09R-27L. Rwy 18 PAPI OTS indef. ACTIVATE MALSR Rwy 09R, PAPI Rwy 09R-CTAF. ACTIVATE PAPI Rwy 09L, REIL Rwy 27R, PAPI Rwy 27R, and VASI Rwy 27L ctc twr. Ldg fee for acft over 12500 lbs. US Customs user fee arpt. Contact U.S. Customs 1200-0100Z‡ Mon-Fri on 248-666-7717; other times

minimum 3 hrs advance notification on 734-942-9000. WEATHER DATA SOURCES: ASOS (248) 666-1818.

COMMUNICATIONS: CTAF 120.5 ATIS 125.025

IINICOM 122 95

PONTIAC RCO 122.15R 111.0T (LANSING RADIO)

R DETROIT APP/DEP CON 127.5

PONTIAC TOWER 120.5 123.7 (1100-0500Z‡) GND CON 121.9 121.65 CLNC DEL 118.25

AIRSPACE: CLASS D svc 1100-0500Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE PTK.

PONTIAC (L) VORTAC 111.0 PSI Chan 47 N42°42.05′ W83°31.97′ 116° 5.4 NM to fld. 1148/3W.

ILS 111.1 I-PTK Rwy 09R. Class IE. Unmonitored when twr clsd. LOC BC unusable byd 14 NM blo

3300'.

5 SW UTC-5(-4DT) N42°54.66′ W82°31.73′

S-40, D-55, 2D-90

ST CLAIR CO INTL

PORT HIIRON

RWY 04-22: H5104X100 (ASPH-GRVD) RWY 04: MALSR. PAPI(P4L)-GA 3.0° TCH 31'. Tree. RWY 22: REIL. PAPI(P4L)-GA 3.0° TCH 30'. Trees. RWY 10-28: H4000X75 (ASPH)

RWY 10: REIL. PAPI (P4L). GA 3.0° TCH 25'. Trees.

Service (ADCUS) avbl.

RWY 28: REIL, PAPI (P4L), GA 3.5° TCH 31', Trees.

RADIO AIDS TO NAVIGATION: NOTAM FILE LAN. PECK (H) VORTAC 114.0 ECK

I-PHN

(See LINDEN)

PULLMAN N42°27.96′ W86°06.29′

VOR/DME unusable 080°-068° DME unusable byd 30 NM blo 3000'. RCO 122.1R 112.1T (LANSING RADIO)

(See HOWELL)

(57D)

S4 FUEL 100LL

(H) VOR/DME 112.1 PMM

RANDOLPH'S LANDING AREA

RWY 09-27: H2494X60 (ASPH)

COMMUNICATIONS: CTAF/UNICOM 122.7

AIRPORT REMARKS: Attended 1300Z±-dusk, Arpt unattended Easter: Thanksgiving and Christmas. Deer and gulls on and invof arpt. Rwy 10 REIL OTS indef. Rwy 28 REIL OTS indef. HIRL Rwy 04-22

entry into the U.S. Notify U.S. Dept of Agriculture at 810-985-6126 and arpt manager at 810-364-6890 24 hrs in advance for disposal of acft international trash. Flight Notification

uncontrolled for DHS, ARNG, USCG or emergency ops.

PHURN NDB (LOM) 332 PH N42°50.57′ W82°35.80′

Rwv 04.

(See ROGERS CITY)

(See SIDNAW)

Chan 58

2 SE

MIRL Rwy 09-27 and PAPI Rwy 09 and Rwy 27-CTAF.

RWY 09: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Trees. RWY 27: PAPI(P2L). Thid dspicd 210'. Trees. RWY 18-36: 2187X123 (ASPH-TURF) RWY 18: Thid dsplcd 140'. Trees.

(See ST JOHNS)

UTC-5(-4DT)

RWY 36: Trees.

EC. 23 SEP 2010 to 18 NOV 2010

AIRPORT REMARKS: Attended irregularly, Ultralight ops. Rwy 18-36 asph peeling and cracking, ACTIVATE rotating bon,

NOTAM FILE LAN

(PHN)

S4 FUEL 100LL, JET A TPA-1650 (1000)

S-16

MIRI

and MIRL Rwy 10-28 preset on low ints; to increase ints and

Chan 87 N43°15.35′ W82°43.08′

LOM PHURN NDB.

NOTAM FILE LAN.

ACTIVATE REIL Rwys 22; 10 and 28 and MALSR Rwy 04-CTAF.

Ldg fee for commercial and corporate acft. Trans Atlantic flights

LRA

HIRL

will have to notify U.S. Customs at 810-985-9541 one hr prior to

043° 5.1 NM to fld.

072° 13.0 NM to Padgham Fld. 640/00E.

N42°44.21′ W82°53.33′

NOTAM FILE PHN

165° 22.3 NM to fld. 810/7W. HIWAS.

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H-5E, 10F, L-28I

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DETROIT

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H-10G. 11A. L-30F

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WEATHER DATA SOURCES: AWOS-3 118.375 (810) 364-7787. COMMUNICATIONS: CTAF/UNICOM 123.05 (R) SELFRIDGE APP/DEP CON 119.6 (1230-0400Z±) clsd hol, other times

IIS 110 9

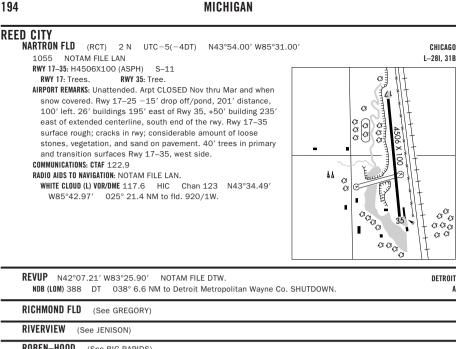
R CLEVELAND CENTER APP/DEP CON 127.7 (0400-1230Z‡)

PRESQUE ISLE CO

PRICES PRICKETT-GROOMS FLD

RAFTHER

RAY COMMUNITY



ROBEN-HOOD (See BIG RAPIDS)

ROCKFORD WELLS (35C) UTC-5(-4DT) N43°07.70′ W85°30.32′ 3 NE NOTAM FILE LAN

NDB (MHW) 215 PZQ

RWY 36: Thid dspicd 400'. Tree. AIRPORT REMARKS: Attended May-Nov dalgt hrs. CLOSED Dec to Apr. Rwy 18-36 and dsplcd thid marked with 3' yellow cones. COMMUNICATIONS: CTAF 122.9

RWY 18-36: 2200X100 (TURF)

ROGERS CITY N45°24.28′ W83°49.22′

At Presque Isle Co.

NOTAM FILE LAN

LAKE HURON

CHICAGO

L-31C

ROGERS CITY PRESQUE ISLE CO (PZO) 1 S UTC-5(-4DT) N45°24.43′ W83°48.77′

NOTAM FILE LAN

RWY 09-27: H4105X75 (ASPH) S-22 MIRI RWY 09: REIL. PAPI(P4L)-GA 3.0° TCH 35'. Thid dsplcd 220'.

RWY 27: REIL. PAPI(P4L)—GA 3.0° TCH 34'. Thid dsplcd 380'. P_line

AIRPORT REMARKS: Unattended. Deer and birds on and invof arpt. Confirm snow removal and winter conditions: phone

989-734-2216 or arpt manager 989-734-4309. ACTIVATE MIRL Rwv 09-27, PAPI Rwv 09 and Rwv 27, REIL Rwv 09 and Rwv 27-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.125 (989) 734-7419. **COMMUNICATIONS: CTAF 122.9**

ALPENA RCO 122.1R 108.8T (LANSING RADIO)

(R) ALPENA APP/DEP CON 128.425 (Weekdays 1300-2100Z‡) (R) MINNEAPOLIS CENTER APP/DEP CON 128.425 (2100-1300Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE APN.

ALPENA (L) VORTAC 108.8 APN Chan 25 N45°04.97'

W83°33.42′ 338° 22.3 NM to fld. 677/7W. HIWAS.

ROGERS CITY NDB (MHW) 215 PZQ N45°24.28' W83°49.22' at fld.

NOTAM FILE LAN.

ROMEO STATE (D98) 2 E UTC-5(-4DT) N42°47.78' W82°58.46'

FUEL 100LL, JET A NOTAM FILE LAN RWY 18-36: H4000X75 (ASPH) MIRL

RWY 18: REIL, PAPI(P4L)—GA 3.0° TCH 20', Thid dsplcd 470', Trees.

RWY 36: REIL. PAPI(P4L)-GA 3.0° TCH 22'. Road. AIRPORT REMARKS: Attended Jun-Sep 1400Z‡-dusk, Oct-May

1400-2300Z‡. Deer on and invof rwy. ACTIVATE MIRL Rwy 18-36, PAPI Rwy 18 and Rwy 36 and REIL Rwy 18 and Rwy 36-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

PONTIAC RCO 122.15R 111.0T (LANSING RADIO)

R SELFRIDGE APP/DEP CON 119.6 (1230-0400Z‡) clsd hol, other times

uncontrolled for DHS, ARNG, USCG or emergency ops.

R CLEVELAND CENTER APP/DEP CON 127.7 (0400-1230Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE PTK.

PONTIAC (L) VORTAC 111.0 PSI Chan 47 N42°42.05'

W83°31.97' 080° 25.3 NM to fld. 1148/3W.

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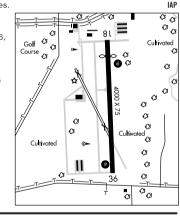
L-31C

DETROIT

COPTER

L-28J

IAP





(3RC) 2 SE

1156 NOTAM FILE LAN RWY 09-27: H3552X75 (ASPH) LIRL (NSTD) RWY 09: REIL (NSTD). Thid dspicd 165'. Trees.

ROSCOMMON CONSERVATION

RWY 27: REIL (NSTD). Trees. RWY 18-36: 2160X100 (TURF)

RWY 18: Trees. RWY 36: Thid dsplcd 600'. Trees.

AIRPORT REMARKS: Attended irregularly. Rwy 18-36. CLOSED Nov-Apr and when snow covered. Rwy 18-36 surface rough with patches of grvl. Deer on and invof arpt. Rwy 09-27 NSTD LIRL located 20' from rwy edge with 30 inch risers. Rwy 18-36 marked with 3'

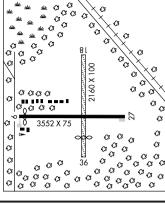
yellow cones. ACTIVATE NSTD LIRL Rwy 09-27-122.7. Rwy 09-27 REIL non-flashing. COMMUNICATIONS: CTAF 122.9 RADIO AIDS TO NAVIGATION: NOTAM FILE TVC.

HOUGHTON LAKE (T) VORW/DME 111.6 HTL

N44°21.53′ Chan 53 W84°39.94' 037° 8.1 NM to fld. 1145/5W.

(See HOUGHTON LAKE)

UTC-5(-4DT)



LAKE HURON

I_31C

N44°28.40′ W84°34.01′

ROSSETTIE (See MANCHESTER)

ROTHBURY

ROSCOMMON CO-BLODGETT MEML

DOUBLE JJ RESORT RANCH (42N) 689

2 NW UTC-5(-4DT) N43°31.02' W86°22.40'

NOTAM FILE LAN RWY 09-27: 3600X100 (TURF)

RWY 09: Thid dspicd 406'. Trees. RWY 27: Thid dspicd 1000'. Trees. AIRPORT REMARKS: Attended Apr-Oct 1300Z‡—dusk, Arpt CLOSED Nov-Mar, Powered parachute training area, Rwy

SAGINAW CO H.W. BROWNE

09-27 and dsplcd thids marked with 3' yellow cones. Horse residue on rwy. COMMUNICATIONS: CTAF 122.9

SAGINAW N43°31.90′ W84°04.64′ NOTAM FILE MBS.

(L) VORW/DME 112.9 MBS Chan 76 at MBS Intl. 663/3W. HIWAS.

VOR unusable 192°-200°. DME unusable 192°-200°.

RC0 122.4 122.2 (LANSING RADIO)

H-10G, 11A, L-28J

CHICAGO

DETROIT

(See SAGINAW)

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03

SAGINAW

MBS INTL (MBS) 9 NW UTC-5(-4DT) N43°31.98′ W84°04.78′

B S2 FUEL 100LL JET A OX 1. 3 LRA ARFF Index—See Remarks NOTAM FILE MBS

H-10G, 11A, L-28J

DETROIT

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RWY 05-23: H8002X150 (ASPH-GRVD) S-135, D-160, 2S-175, 2D-265 RWY 05: MALSR.

RWY 23: MALSR, PAPI(P4L)—GA 3.0° TCH 54'. 0.3% up.

RWY 14-32: H6399X150 (ASPH-GRVD) S-135, D-160, 2S-175,

2D-265 HIRL

RWY 14: REIL. VASI(V4L)—GA 3.0° TCH 42'. Trees.

RWY 32: REIL. PAPI(P4L)-GA 3.0° TCH 50'. Trees. RUNWAY DECLARED DISTANCE INFORMATION

RWY 05: TORA-8002 TODA-8002 ASDA-8002 LDA-8002 RWY 14: TORA-6399 TODA-6399 ASDA-6399 LDA-6399

RWY 23: TORA-8002 TODA-8002 ASDA-8002 LDA-8002 RWY 32: TORA-6399 TODA-6399 ASDA-6399 LDA-6399

AIRPORT REMARKS: Attended continuously. For syc after hrs call 989-695-2554. Birds on and invof arpt. When twr clsd HIRL Rwvs

05-23 and 14-32 are preset med ints. Twy B is a one way only

twy from the rwys to the ramp. ACTIVATE MALSR Rwys 05 and 23-CTAF. Class I, ARFF Index B. Index C ARFF svc available upon

req. Ldg fee. Ldg fee waived in lieu of fuel purchase.

WEATHER DATA SOURCES: ASOS (989) 695-2488. HIWAS 112.9 MBS. LAWRS (1100-0400Z±) COMMUNICATIONS: CTAF 120.1 ATIS 125.925

SAGINAW RCO 122.4 122.2 (LANSING RADIO) R SAGINAW APP/DEP CON 126.45 (230°-049°), 120.95 (050°-229°)(1100-0400Z‡).

CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z‡). SAGINAW TOWER 120.1 (1100-0400Z±) GND CON 121.7

CINC DEL 121.85

between 150°-180°.

IINICOM 122 95

198 MICHIGAN (HYX)

RWY 09-27: H5000X100 (ASPH) S-60, D-72, 2D-101 MIRL RWY 09: REIL. PAPI(P2L)-GA 3.0° TCH 30'. P-line.

FUEL 100LL, JET A

RWY 27: MALSR. PAPI(P2L)-GA 3.0° TCH 30'. RWY 05-23: H2951X60 (ASPH) S-12.5

RWY 05: PAPI(P2L)—GA 3.0° TCH 25', Thid dsplcd 120', Fence.

UTC-5(-4DT)

NOTAM FILE HYX

N43°26.01′ W83°51.74′

Rwy 5-23: 2951 X 60

DETROIT

LAKE HURON

IAP

H-10G. 11A. L-28J

RWY 23: PAPI(P2R)—GA 3.0° TCH 25'. Thid dsplcd 130'. Road. AIRPORT REMARKS: Attended Mon-Fri 1230-2300Z‡, Sat-Sun

SAGINAW CO H.W. BROWNE

601 R S4

1300-2030Z‡. Arpt unattended holidays. 24 hr self serve fuel. Parachute Jumping. Birds on and invof arpt. Rwy 23 has 2' high

concrete culvert, 120' left, 20' from rwy end and ditch 15' deep across the apch end, 120' left to 21' right, 20' to 197' from rwy

end. Rwy 05-23 sfc numerous transverse and longitudinal cracks. ACTIVATE MALSR Rwy 27, MIRL Rwy 05-23 and Rwy 09-27, REIL Rwy 09 and PAPI Rwy 05, Rwy 23, Rwy 09 and Rwy 27-CTAF. WEATHER DATA SOURCES: AWOS-3 118.325 (989) 752-3408. HIWAS

COMMUNICATIONS: CTAF/UNICOM 122.8 SAGINAW RCO 122.4 122.2 (LANSING RADIO) R SAGINAW APP/DEP CON 120.95 (1100-0400Z‡)

CLEVELAND CENTER APP/DEP CON 127.7 (0400-1100Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE MBS.

SAGINAW (L) VORW/DME 112.9 MBS Chan 76 N43°31.90′ W84°04.64′ 125° 11.1 NM to fld. 663/3W. HIWAS.

ILS/DME 111.35 I-HQW Chan 50(Y) Rwy 27.

ST CLAIR DETROIT

DAVID'S LANDING (5Y5) 3 SW UTC-5(-4DT) N42°47.87′ W82°32.19′

NOTAM FILE LAN

RWY 36: Trees.

RWY 18: Thid dsplcd 1100'. P-line. AIRPORT REMARKS: Attended irregularly. Arpt CLOSED Dec-Mar and when snow covered. 100' p-line 5 mile S of Rwy 36. Rwy 18-36 soft in spring. Rwy 18-36 -4' ditch 10' W of Rwy. Rwy 18-36 and dsplcd thld marked with 3' yellow cones.

COMMUNICATIONS: CTAF 122.9

ST CLAIR CO INTL (See PORT HURON)

RWY 18-36: 2500X100 (TURF)

ST HELEN (6Y6) 1SE UTC-5(-4DT) N44°22.00′ W84°24.00′

1198 NOTAM FILE LAN

RWY 12-30: 2600X120 (TURF)

RWY 12: Thid dsplcd 830'. Trees.

RWY 30: Thid dspicd 800'. Trees.

RWY 18-36: 2600X110 (TURF)

RWY 18: Thid dspicd 825'. Trees. RWY 36: Thid dspicd 620'. Road.

AIRPORT REMARKS: Unattended. CLOSED Dec thru Mar and when snow covered. Hangars located 135' west of centerline Rwy 18-36. Rwy 12-30 and Rwy 18-36 dsplcd thlds marked with cones.

COMMUNICATIONS: CTAF 122.9

NOTAM FILE SJX.

RWY 25: Thid dsplcd 798'. Trees.

ST JAMES N45°41.60′ W85°33.52′

NDB (MHW) 382 SJX at Beaver Island, Unmonitored. ST IOHNS

€3

ARCHER MEML FLD (2S3) 7 SE UTC-5(4DT) N42°54.42′ W84°28.33′

TPA-1600(806) NOTAM FILE LAN

growing season. Rwy 17-35 marked with 3' yellow cones.

RWY 17-35: 2496X110 (TURF) RWY 35: Thid dspicd 1145'.

COMMUNICATIONS: CTAF 122.9 **GLOWACKI** (97G) 2 W UTC-5(4DT) N43°00.00′ W84°35.75′ NOTAM FILE LAN

RWY 09-27: 1528X100 (TURF) RWY 09: Trees. RWY 27: Building. downward E to W; Rwy soft in spring. Radio control and ultralight acft ops on arpt. Rwy 09-27 marked with 3'

COMMUNICATIONS: CTAF 122.9

RANDOLPH'S LANDING AREA (61G) 7 NE UTC-5(-4DT) N43°06.75′ W84°31.25′ 700 NOTAM FILE LAN RWY 05-23: 2175X100 (TURF) RWY 05: Thid dspicd 767'. Road.

AIRPORT REMARKS: Attended irregularly. Deer on and invof arpt. Rwy 23 3' fence L side 65' from centerline. Rwy 05-23 and dsplcd thlds marked with yellow tires; Rwy 05 dsplcd thld marked with 6 yellow tires 3 each side. COMMUNICATIONS: CTAF 122.9

- - - - - - - - - - - -SCHIFFER ACRES (3S5) 4 E UTC-5(-4DT) N43°02.15′ W84°26.03′ 735 S4 NOTAM FILE LAN RWY 07-25: 2777X120 (TURF) RWY 07: Rgt tfc. Trees.

AIRPORT REMARKS: Attended irregularly. Power plant repairs are for emerg use only. Extensive summer agricultural

ops. Deer and turkeys on and invof rwy. Rwy 07-25 LIRL not for public use. Rwy 25 displaced thid marked by 3 yellow tires each side of rwy. Rwy defined by mowing. COMMUNICATIONS: CTAF 122.9

GREEN BAY I-31B DETROIT

AIRPORT REMARKS: Attended May-Nov irregularly. No snow removal. Rwy 17 thld may be obstructed by 8' corn during AIRPORT REMARKS: Attended irregularly. 15' tree N side of rwy on rwy edge, 132' E of Rwy 09. Rwy 27 terrain slopes

DETROIT

DETROIT

DETROIT

RWY 09-27: 2509X50 (TURF) RWY 09: Thid dsplcd 280'. Road. RWY 27: Thid dspicd 425'. Road.

717 S2

AIRPORT REMARKS: Attended 1300Z‡-dusk. Snow removal irregular, confirm arpt condition with arpt manager, call

UTC-5(-4DT)

989-862-4413. For minor airframe and powerplant repairs, call 989-862-4413. Deer on and invof arpt. Rwy 09-27 and dsplcd thids marked with 3' yellow cones. NSTD rotating bcn red flashing lgt. LIRL Rwy 09-27 not for nublic use

COMMUNICATIONS: CTAF 122.9 **SALEM** N42°24.53′ W83°35.65′ NOTAM FILE LAN.

RWY 18: Ground.

(L) VORTAC 114.3 SVM Chan 90 350° 5.8 NM to Oakland Southwest. 950/3W. RC0 122.1R 114.3T (LANSING RADIO)

(96G) 3 S

(Y83)

3 N

NOTAM FILE LAN RWY 09-27: 2465X50 (TURF) RWY 09: Tree.

(39T) 6 NE

NOTAM FILE LAN

UTC-5(-4DT) N43°22.59′ W82°48.87′

N43°03.89′ W84°29.35′

AIRPORT REMARKS: Attended irregularly. Snow removal irregular; verify condition, call 810-648-2352. Deer and turkeys on and invof arpt. Be alert for close proximity of power poles along twy on west end. Rwy 09-27 marked L-28J. 31C M

€3

☼ 3105 X 75

(-) <u>@</u>

COMMUNICATIONS: CTAF 122.9

SANDUSKY COWLEY FLD

UTC-5(-4DT) N43°27.32′ W82°50.48′

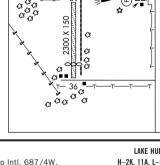
776 B S4 FUEL 100LL NOTAM FILE LAN

RWY 09-27: H3105X75 (ASPH) S-16 MIRL RWY 09: REIL. PAPI(P2L)-GA 3.0° TCH 31'. Tree. RWY 27: PAPI(P2L)-GA 3.0° TCH 39'. Road. RWY 18-36: 2300X150 (TURF) RWY 36: Thid dspied 383', Road.

AIRPORT REMARKS: Attended irregularly. For fuel call 810-648-4194, 810-414-3009 or 810-648-2000 (Sheriff). Birds and deer on and invof arpt. +3' embankment 50' from Rwy 36 thld, -10' ditch 100' east of Rwy 18-36. ACTIVATE MIRL Rwy 09-27-CTAF. Rwy

18-36 marked with yellow cones. COMMUNICATIONS: CTAF/UNICOM 122.8 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN

PECK (H) VORTAC 114.0 ECK Chan 87 N43°15.35" W82°43.08′ 343° 13.1 NM to fld. 810/7W. HIWAS.



(H) VOR/DME 112.2 SSM Chan 59 218° 11.7 NM to Chippewa Co Intl. 687/4W. RCO 122.1R 112.2T (GREEN BAY RADIO)

SAULT STE MARIE N46°24.73′ W84°18.89′ NOTAM FILE CIU.

LAKE HURON H-2K. 11A. L-31B

DETROIT

DETROIT

DETROIT

DETROIT

H-10G, L-28J, A

SAULT STE MARIE

CHIPPEWA CO INTL (CIU) 15 S UTC-5(-4DT) N46°15.05′ W84°28.34′ FUEL 100LL, JET A TPA-1600(800) AOE Class I. ARFF Index A

RWY 16: MALSR. PAPI(P4L)-GA 3.0° TCH 58'. Rgt tfc. RWY 34: REIL. PAPI(P4L)-GA 3.0° TCH 40'.

RWY 09-27: H4999X75 (ASPH-GRVD) S-30, D-30

RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Trees.

RWY 27: REIL, PAPI(P4L)-GA 3.0° TCH 40', Trees. AIRPORT REMARKS: Attended 1100-2300Z±. After hrs call

NOTAM FILE CIU RWY 16-34: H7200X200 (CONC-GRVD) S-155, D-330, 2S-175, 2D-600 HIRI

LAKE HIIRON

H-2L, L-31B

IAP. AD

acft arrivals or departures. ACTIVATE HIRL Rwy 16-34, MIRL Rwy 09-27, PAPI Rwy 16, Rwy 09 and Rwy 27, REIL Rwy 09, Rwy 27 and MALSR Rwy 16 and PAPI and REIL Rwy 34 Apr-Nov-CTAF. Rwy 34 PAPI and REIL opr continuously Dec-Mar, ARFF coverage

Service (ADCUS) available.

906-495-5532. Birds on and invof arpt. 24 hours PPR for unscheduled air carrier ops with more than 9 passenger seats:

call arpt manager on 906-495-5631. Airfield sfc condition unmonitored 2100-1300Z‡. Expect snow removal activity daily Dec-Mar. All twys closed except A, C and D from Dec to Apr. Check NOTAMs for specific schedule or ctc arpt manager

MIRI

906-495-5631. Vehicle testing in progress during winter months on sections of closed/abandoned parallel twy, SE of apch end Rwy 34. Area may be plowed to bare surface but is not avbl for

Chan 59 N46°24.73′ W84°18.89′

required to establish and maintain two-way communication and obtain ATC clearance from Sault Ste Marie Twr

7 1000 X 75 provided scheduled FAR 121 acft only, other times by prior arrangement with airport manager. Flight Notification

218° 11.7 NM to fld. 687/4W.

335° 4.6 NM to fld. 687/4W.

LAKE HURON

H-2L, 11A, L-31B

WEATHER DATA SOURCES: AWOS-3 127.575 (906) 495-7134. COMMUNICATIONS: CTAF/UNICOM 123.0

CHIPPEWA RCO 123.65 (GREEN BAY RADIO) SAULT STE MARIE RCO 122.1R 112.2T (GREEN BAY RADIO)

TORONTO CENTER APP/DEP CON 132.65 (SAULT ENROUTE)

RADIO AIDS TO NAVIGATION: NOTAM FILE CIU.

Chan 59 N46°24.73′ W84°18.89′ SAULT STE MARIE (H) VOR/DME 112.2 SSM KOLOE NDB (MH/LOM) 400

CI N46°19.93′ W84°32.53′ 155° 5.7 NM to fld.

NDB unmonitored. LOM KOLOE NDB. ILS unmonitored 0430Z± Sun-1000Z± Mon.

ILS 110.3 I-CIU Rwv 16. Class IA. 0430-1000Z‡ Mon-Fri, 0430Z‡ Fri-1145Z‡ Sat and 1715Z‡ Sat-1600Z‡ Sun. ILS unusable MM inbound. Glide slope unusable blo 1012'.

SAULT STE MARIE MUNI/SANDERSON FLD (ANJ) 1SW UTC-5(-4DT) N46°28.75′ W84°22.10′ 716 FUEL 100LL, JET A NOTAM FILE ANJ

RWY 14–32: H5234X100 (ASPH) MIRL (NSTD) 0.4% up SE RWY 14: REIL. PAPI (P2L)-GA 3.0° TCH 40'. Thid dspicd 180'.

RWY 32: REIL, PAPI (P2L)—GA 3.0° TCH 29', Thid dsplcd 178', Road, Rgt tfc. AIRPORT REMARKS: Attended 1400-2200Z‡. Fuel after hrs self svc with credit card. Deer and birds on and invof arpt.

50' drop off, north end, 200' from rwy end. ACTIVATE MIRL Rwy 14-32, PAPI Rwys 14, Rwy 32 and REIL Rwys 14

and Rwy 32—CTAF-122.7, US customs on reg call 906-632-2631, Call 1 hour prior to arrival.

WEATHER DATA SOURCES: ASOS 118.375 (906) 632-8501. COMMUNICATIONS: CTAF/UNICOM 122.7

TORONTO CENTER APP/DEP CON 132.65 RADIO AIDS TO NAVIGATION: NOTAM FILE CIU.

SAULT STE MARIE (H) VOR/DME 112.2 SSM COMM/NAV/WEATHER REMARKS: Acft operating within Sault Ste Marie. Ontario Arpt traffic area maintain communications

with Sault Ste Marie Ontario twr on frequency 118.8. Pilots operating in Canadian/US Class D Airspace are

(SOO TOWER 118.8) prior to operating in the Class D Airspace. Traffic Advisory Service (118.8) is avbl in the US Class E Surface Extension 1200-0100Z‡.

SAWYER INTL (See MARQUETTE) SCHIFFER ACRES

SCHOOLCRAFT CO

(See ST JOHNS)

(See MANISTIQUE)

OW

RWY 18-36: H2178X50 (ASPH) S-10 LIRL

202

SEBEWAING

(98G)

RWY 01-19: H9000X150 (PEM)

closed holidays.

FUEL 100LL

RWY 18: Trees.

RWY 06-24: 2150X130 (TURF) RWY 24: Thid dsplcd 483'. Railroad. RWY 06: Brush. AIRPORT REMARKS: Attended irregularly. For fuel call 989-883-3787 or 989-550-1145. Rwy 06-24 not plowed

NOTAM FILE LAN

UTC-5(-4DT)

winter months, may be wet or unusable during spring thaw. Seagulls and deer on and invof rwys. Rwy 06-24

18-36-CTAF.

marked with 3' cones. Rwy 18-36 numerous cracks, vegetation and deterioration. ACTIVATE LIRL Rwy COMMUNICATIONS: CTAF/UNICOM 122.8

SELFRIDGE ANGB (MTC)(KMTC) ANG (ARNG)

2 NE

N42°36.50′ W82°50.13′

TPA—See Remarks NOTAM FILE MTC

JASU 1(M32A-60) 1(A/M32A-86D) 1(MC-11)

1215-2100Z‡, other times DSN 273-5777.

COMMUNICATIONS: ATIS 125.325 270.1

CLEVELAND CENTER DEP CON 127.7 290.425.

020-345° byd 20 NM blo 3,000'

Slope Wed 1300-1700Z‡ (1500/3).

(See BROOKLYN)

(See EMMETT)

I-RFB

I-MTC

Wed 1300-1700Z‡ (1500/3).

TOWER 120.15 225.4

SFIFRINGE 120 15

(L) TACAN Chan 64 1300-1500Z‡ (1500/3). TACAN unusable:

ILS 110.1

ILS 110.1

SHAMROCK FLD

SHARPE'S STRIP

ops, other times ctc

AIRSPACE: CLASS D svc continuous. RADIO AIDS TO NAVIGATION: NOTAM FILE MTC.

notice required ctc DSN 273-5640 or C586-239-5640.

S overrun hardened may be used for tkf, day VFR condition only.

ops, other times ctc RCLEVELAND CENTER APP CON 127.7 308.7.

PMSV METRO 342.5 (Full svc avbl 1000-0400Z±, clsd hol.) WING COMD POST (QUARTERBACK Control) 311.0 321.0

Rwv 01.

Rwy 19.

GND CON 128.3 275.8

USCG DETROIT AIR 381.8X 5692X

COMM/NAV/WEATHER REMARKS: VFR ARR contact Selfridge App Con 30 NM out 119.6 318.2.

EC. 23 SEP 2010 to 18 NOV 2010

FLUID SP PRESAIR LPOX LOX HPOX

RWY 36: Thid dsplcd 245'. Railroad.

UTC-5(-4DT)

N43°43.75' W83°27.75'

DETROIT

DETROIT COPTER

DIAP, AD

H-10G, L-28J, A

HIRL

Not insp. S-85, D-220, 2D-380, 2D/2D2-800

RWY 01: SALS, REIL, PAPI(P4R)—GA 3.0° TCH 52', Rgt tfc.

PCN 54 R/B/W/T

FUEL J8. Avbl Mon-Fri 1200-0300Z‡, Sat-Sun 1430-2100Z‡,

OIL 0-128-133-148 SOAP, SOAP Mon-Fri

TRAN ALERT Opr 1230-0130Z‡ clsd hol. Ltd fleet scv avbl prior

345°-020° byd 30 NM blo 3,000′

ILS BC unusable. No NOTAM MP ILS Tue 1300-1500Z‡ (1500/3), Glide Slope

ILS BC unusable. No NOTAM MP ILS Tue 1300-1500Z‡ (1500/3), Glide

RWY 19: ALSF1, REIL, PAPI(P4R)-GA 3.0° TCH 52', Rgt tfc. MILITARY SERVICE: LGT When twr clsd ACTIVATE arpt Igt freq 120.15.

MILITARY REMARKS: Opr 1230-0400Z‡, clsd hol. Other times uncontrolled for Department of Homeland Security, ARNG, USCG or emergency ops. See FLIP AP/1 Supplementary Arpt Remark. RSTD Hazardous cargo pad can accommodate C130 and Itd C17 use. No tie downs on pad. No long term parking that location. Helipad on Twy B day VFR only. PPR all acft, DSN 273-5322/4402. CAUTION Moderate bird activity common. Twy B btn Twy H and 500' north of Twy J not visible from twr. TFC PAT TPA-Fighter rectangular and clsd 2200(1620), all others 1700(1120). MISC VIP acft ctc PTD 30 minutes prior to arrival with firm chock time. Base OPS DSN 273-5322. C586-307-5322, fax DSN 273-5814, C586-239-5814; NOTAM DSN 273-4069, C586-239-4069. Snow removal accomplished 1215-2100Z‡ weekdays. Tran acft req use of Selfridge ANGB Drop Zones (DZs). Rwy 01-19 tranversely grooved. Rwy 01-19 S 1500' concrete, center 5700' asphalt, N 1800' concrete. Rwy 01-19

(R) APP CON 119.6 318.2 (1230-0400Z±), clsd hol, other times uncontrolled for DHS, ARNG, USCG or emergency

R DEP CON 119.6 391.9 (1230–0400Z‡), clsd hol, other times uncontrolled for DHS, ARNG, USCG or emergency

CLNC DEL 119.0 259.95

MTC (133.7) N42°36.78′ W82°49.91′ at fld. 580/6W. No NOTAM MP Thu

PTD 134.85 372.2

(IRS)

STURGIS

KIRSCH MUNI 924 R S4

> RWY 18-36: H5200X100 (ASPH) S-47, D-57,5 2D-90 MIRL RWY 18: REIL. PAPI(P4L)-GA 3.0° TCH 27'. Trees. RWY 36: REIL, PAPI(P4L)—GA 3.0° TCH 25', Trees.

FUEL 100LL JET A1 + 0X 4 TPA—1924(1000)

2 NW UTC-5(-4DT) N41°48.80′ W85°26.34′

NOTAM FILE IRS

RWY 06-24: H3451X75 (ASPH) S-19, D-25, DT-58 MIRI 0.3% up NE. RWY 06: Trees. RWY 24: REIL. PAPI(P2L)-GA 4.0° TCH 22'. Trees.

AIRPORT REMARKS: Attended 1300Z‡-dusk. Rwy 18-36 MIRL OTS

indef, ACTIVATE MIRL Rwv 06-24 and Rwv 18-36, REIL Rwv 18

and Rwy 24, PAPI Rwy 24, Rwy 18, and Rwy 36-CTAF. WEATHER DATA SOURCES: AWOS-3 121.325 (269) 659-8715.

COMMUNICATIONS: CTAF/UNICOM 123.05 (R) KALAMAZOO APP/DEP CON 121.2 (1100-0400Z‡) KALAMAZOO CLNC DEL 133.55 (R) CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE AZO. KALAMAZOO (L) VOR/DME 109.0 AZO Chan 27 N42°14.22' W85°33 19' 170° 25.9 NM to fld. 870/1W. STURGIS NDB (MHW) 382 IRS N41°48.79′ W85°26.03′

NOTAM FILE IRS. SUGAR LOAF RESORT (See TRAVERSE CITY)

C C 03 03 C3 C3 €3 G G G G 81 03 03 ঔ G G G aga a 5200 **3** 3 00000 C3 C3 8 ^2 C a

CHICAGO

DETROIT COPTER

L-28J

IAP

H-5E, 10F, L-281

SUNFIELD

HIRAM CURE (C43)2 NF UTC-5(-4DT) N42°46.20′ W84°57.90′

NOTAM FILE LAN

RWY 09-27: 2314X100 (TURF)

AIRPORT REMARKS: Attended irregularly. Arpt CLOSED Dec thru Mar and when snow covered. Rwy 09-27 soft when wet. Deer invof rwy. Crops adjacent to rwy. Rwy 09-27 marked with 3' yellow cones.

SUOMI N46°15.71′ W87°24.97′ NOTAM FILE SAW. NDB (LOM) 410 SO 013° 5.6 NM to Sawyer Intl.

TACKABERRY

(See AVOCA)

2 N

S-6

UTC-5(-4DT)

LIRL

0.6% un N

Rwy 18-36 acft Ind/tkof adjacent W of asph rwy. Area not marked to delineate area being used. Rwy 09-27 marked with tires; Rwy 09 dsplcd thld marked with three tires each side. ACTIVATE LIRL Rwy 18-36—CTAF.

NOTAM FILE LAN

TECUMSEH

RWY 09: Tree.

COMMUNICATIONS: CTAF 122.9

MEYERS-DIVER'S (3TE)

S3

FUEL 100LL

RWY 18-36: H2660X75 (ASPH)

RWY 18: Thid dsplcd 780'. Trees. RWY 09-27: 1820X100 (TURF)

RWY 09: Trees. RWY 27: Post. AIRPORT REMARKS: Attended 1300-2300Z±, Fuel avbl Mon-Sat 1300-2230Z±, Parachute Jumping, Skydiving activity, Rwy 18-36 pavement cracking. Rwy 09-27 not plowed after winter storms. Maintenance for Meyers acft only.

COMMUNICATIONS: CTAF 122.9 R DETROIT APP/DEP CON 118.95 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

CARLETON (H) VORTAC 115.7 CRL Chan 104 N42°02.88' W83°27.45' 270° 21.6 NM to fld. 629/3W.

N42°01.51′ W83°56.35′

RWY 36: Thid dspicd 500'. Trees. Rgt tfc.

DETROIT **GREEN BAY**

RWY 36: Thid dpicd 486'. Fence. AIRPORT REMARKS: Attended 1400-2200Z‡. Ultralight activity on and invof arpt. Rwy 18-36 opposite rwy not visible from thid. Rwy 18-36 LIRL not for public use. Rwy 18-36 marked with cones; dsplcd thid marked with three 3'

COPTER

DETROIT

COPTER

MERILLAT (34G) 3 SE UTC-5(-4DT) N41°58.50′ W83°55.51′

vellow cones each side. ACTIVATE rotating bcn-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

VAN CAMP'S HELIPORT (2T7) 5 NE UTC-5(-4DT) N42°01.15′ W83°50.92′ NOTAM FILE LAN

LIRL

MIRL

FUEL 100LL NOTAM FILE LAN

HELIPAD H1: 90X50 (TURF) HELIPORT REMARKS: Attended irregularly. Helipad H1 marked with cones. 35' tree 102' from heliport at 180°, apch

B S4

RWY 18-36: 3608X100 (TURF) LIRL RWY 18: Thid dsplcd 261'. Fence.

820

ratio 2:1. 60' tree 80' from heliport at 270° apch ratio 2:1. COMMUNICATIONS: CTAF 122.9

THOMPSONVILLE (7Y2) 2 W UTC-5(-4DT) N44°31.00′ W85°58.51′ B NOTAM FILE LAN RWY 09-27: H2900X75 (ASPH) D-12.5

RWY 09: Thid dspicd 50'. Road. Rgt tfc. RWY 17-35: H2475X150 (TURF) RWY 17: Thid dspicd 1220'. Trees.

AIRPORT REMARKS: Unattended. Rwy 17-35 CLOSED Nov thru Mar and when snow covered. Rwys not plowed. Rwy 17-35 surface rough. +450' unlighted ski hill ½ mile west of arpt. Radio controlled model acft, ultralight and glider activity. Arpt rotating bcn on ski hill 450' above arpt elevation 1.0 miles northwest. ACTIVATE LIRL Rwy

09-27 and PAPI Rwy 27-CTAF. Rwy 17-35 and dsplcd thids marked with 3' yellow cones. COMMUNICATIONS: CTAF 122.9

B S4 FUEL 100LL. JET A

THREE RIVERS MUNI DR HAINES (HAI) RWY 09-27: H4000X75 (ASPH) S-26. D-30

RWY 05-23: H2729X60 (ASPH) S-16 RWY 05: Road RWY 23: Road.

RWY 09: REIL, PAPI(P4L)-GA 3.5° TCH 25'. AIRPORT REMARKS: Attended 1300Z‡-dusk, Rwy 05-23 PAEW. Snow plowing second priority, call to confirm conditions. Rwy 05 vertical clnc over road waived by FAA (10/06/2009) ALP apvl letter. Possibility of crop

irrigation equipment ops in NE apch to Rwy 23. Radio controlled airplanes opr S of apch end Rwy 27. MIRL Rwys

09-27 and Rwy 05-23 and PAPI Rwy 09 and Rwy 27 and REIL Rwy 09 and Rwy 27-CTAF. WEATHER DATA SOURCES: AWOS-3 119.975 (269) 273-6705. COMMUNICATIONS: CTAF/UNICOM 122.8 R KALAMAZOO APP/DEP CON 121.2 (1100-0400Z‡)

R CHICAGO CENTER APP/DEP CON 127.55 (0400-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE AZO. KALAMAZOO (L) VOR/DME 109.0 AZO

NDB (MHW) 407 HAI N41°57.50′ W85°35.50′ on fld. NOTAM FILE LAN. OTS indef. TOLEDO SUBURBAN (See LAMBERTVILLE)

TOPINABFF

PBEAAYE (Y3Ø) 3 NE UTC-5(-4DT) N45°31.87′ W84°33.42′ NOTAM FILE LAN

RWY 01-19: 2470X90 (TURF)

RWY 01: Thid dspicd 450'. Trees. AIRPORT REMARKS: Attended irregularly. Deer and birds invof arpt. Winter ops skis only. Trees in primary sfc; all

quadrants. Rwy 01-19 rwy sfc rolling terrain, rough. Rwy 01-19 and dsplcd thlds marked with cones. +60'

(See EASTPORT)

windsock located at north end.

COMMUNICATIONS: CTAF 122.9

TORCHPORT

RWY 19: Thid dspicd 800'. Trees.

EC. 23 SEP 2010 to 18 NOV 2010

Chan 27 N42°14.22′ W85°33.19′ 187° 16.7 NM to fld. 870/1W.

RWY 27: REIL, PAPI(P4L)—GA 3.5° TCH 29', Trees.

RWY 27: PAPI(P2L)-GA 4.0° TCH 20'. Trees.

2 NE UTC-5(-4DT) N41°57.59' W85°35.60' TPA-1824(1000) NOTAM FILE LAN

RWY 35: Thid dsplcd 1100'. Trees. Rgt tfc.

GREEN BAY

CHICAGO

LAKE HURON

L-281

IAP

N44°40.07′ W85°33.00′ (H) VORTACW 1146 TVC Chan 93

345° 4.6 NM to Cherry Capital. 912/2W. HIWAS. VOR portion unusable 276°-334° byd 20 NM blo 5000'. VOR portion unusable 063°-157° byd 16 NM blo

2600; 063°-157° byd 27 NM blo 5000'. DME portion unusable 020°-335° byd 30 NM blo 3500'.

NOTAM FILE TVC.

RCO 122.65 122.2 (LANSING RADIO)

RWY 10: VASI(V4L)-GA 3.0° TCH 46'. Tree. RWY 28: MALSR. PAPI(P4L)-GA 2.9° TCH 52'. Tower. RWY 18-36: H5378X150 (ASPH-PFC) S-70, D-110, 2S-140,

TORA-5379 TODA-5379

TODA-6500

TODA-5379

1200-0300Z‡. During hrs when arpt is unattended call arpt ops 231-313-0928 or FBO at 231-929-1126. Arpt CLOSED to unscheduled air carrier acft with over 30 passenger seats without

TRAVERSE CITY CHERRY CAPITAL

S4 FUEL 100LL, JET A LRA Class I, ARFF Index B NOTAM FILE TVC 624 R RWY 10-28: H6500X150 (ASPH-PFC) S-90, D-130, 2S-165, 2D-240 HIRI

(TVC) 2 S UTC-5(-4DT) N44°44.50′ W85°34.94′

DIST AVBL

2850

5500

ASDA-6500

ASDA-5109

ASDA-6500

ASDA-5109

IAP. AD

GREEN BAY

H-2L, L-31B

GREEN RAY

H-2L, L-31B

RWY 18: VASI(V4L)-GA 3.0° TCH 50', Thid dsplcd 270', Trees.

TRAVERSE CITY

RWY 36: REIL, VASI(V4L)—GA 3.0° TCH 50', Tree. LANDING

RWY 18

RWY 28

LAND AND HOLD SHORT OPERATIONS HOLD SHORT POINT 10-28 18-36 RUNWAY DECLARED DISTANCE INFORMATION RWY 10-TORA-6500 TODA-6500

TORA-6500

TORA-5379

MIRL

RWY 18-RWY 28-

AIRPORT REMARKS: Attended Oct-Apr 1200-02007±, May-Sep

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

Rwy 28. Class IE. LOM GWENN NDB. ILS and LOM unmonitored when twr clsd. I-TVC

GWENN NDB (MH/LOM) 365 TV N44°44.07′ W85°25.76′ 279° 6.6 NM to fld. Unmonitored when twr clsd.

R MINNEAPOLIS CENTER APP/DEP CON 132.9 TRAVERSE CITY TOWER 124.2 (1200-0200Z, 1100-0200Z EDT) GND CON 121.8 AIRSPACE: CLASS D svc (1200-0200Z, 1100-0200Z EDT) other times CLASS E.

MALSR Rwy 28 and REIL Rwy 36—CTAF. Ldg fee based on acft weight, private owned single engine acft WEATHER DATA SOURCES: ASOS (231) 933-0401. HIWAS 114.6 TVC.

COMMUNICATIONS: CTAF 124.2 ATIS 119.175 UNICOM 122.95 TRAVERSE CITY RCO 122.65 122.2 (LANSING RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE TVC.

48 hour prior permission—call 231-947-2250, CAUTION: Birds and deer on and invof arpt, Twy C-1 east of Twy C not avbl to air carrier acft. Snow removal ops in progress winter months, Snow Command will be monitoring CTAF during non-twr hours. Acft ldg/departing TVC should announce their intentions on CTAF when twr clsd. Flt crews should read back all advisory information provided by Snow Command. Arpt surface conditions unmonitored btn 0600-0900Z‡. ACTIVATE HIRL Rwy 10-28, MIRL Rwy 18-36, VASI Rwy 18 and

LDA-6500

LDA-4839

LDA-6500

IDA-5109

TRAVERSE CITY (H) VORTACW 114.6 TVC Chan 93 N44°40.07′ W85°33.00′ 345° 4.6 NM to fld. 912/2W.

Chan 93 N44°40.07'

N42°32.58′ W83°10.67′

NOTAM FILE LAN

UTC-5(-4DT)

N44°54.75′ W85°48.84′

I-31B

207

SUGAR LOAF RESORT (YØ4) 825 NOTAM FILE LAN RWY 02-20: H3519X50 (ASPH)

RWY N2. Trees RWY 20: Thid dspicd 572'. Trees.

AIRPORT REMARKS: Unattended. Day ops only. No snow removal. Ski hill adjacent to rwy NW side. Adjacent ski facility CLOSED. +10' hill on

Pedestrians and golf course adjacent to rwy N end, pedestrians and equipment crossing rwy. WEATHER DATA SOURCES: HIWAS 114.6 TVC.

COMMUNICATIONS: CTAF 122.9 RADIO AIDS TO NAVIGATION: NOTAM FILE TVC.

TRIBE N45°03.70′ W87°41.76′

TN

TRAVERSE CITY (H) VORTACW 114.6

TVC W85°33.00' 325° 18.5 NM to fld. 912/2W. HIWAS

14 NW

each side of rwy, 10' from pavement edges in midsection of rwy.

NOTAM FILE MNM.

0.7% up W

035°4.6 NM to Menominee-Marinette Twin Co. TRIPLE H (See PARCHMENT)

TRIPP CREEK (See ST JOHNS)

NDR (LOM) 239

TROY

OAKLAND/TROY (VLL)

2 E UTC-5(-4DT)

FUEL 100LL, JET A TPA-1727(1000)

RWY 09-27: H3549X60 (ASPH) MIRL RWY 09: PAPI(P2R)-GA 4.0° TCH 30', P-line.

> 1300-2300Z‡, Jun-Aug Mon-Fri 1300-0100Z‡, Sat-Sun 1300-2300Z‡. Deer and birds on and invof arpt. No touch and go landings or practice traffic patterns, Rwy 09 +3' berm 316' from thid. ACTIVATE MIRL Rwy 09-27 and PAPI Rwy 09 and Rwy

> AIRPORT REMARKS: Attended Sep-May Mon-Fri 1300-2300Z‡ Sat-Sun

RWY 27: PAPI(P2L)-GA 4.0° TCH 31'. Building.

27—CTAF WEATHER DATA SOURCES: AWOS-3 119.475 (248) 288-4649. COMMUNICATIONS: CTAF/UNICOM 123.05 (R) DETROIT APP/DEP CON 126.85 CLNC DEL 121.725

RADIO AIDS TO NAVIGATION: NOTAM FILE PTK. PONTIAC (L) VORTAC 111.0 PSI Chan 47 N42°42.05' W83°31.97′ 124° 18.4 NM to fld. 1148/3W.

COMM/NAV/WEATHER REMARKS: For CLNC DEL key frequency 121,725 4 times. To contact FSS key freg 121.725 6 times. One second

on/one second off; monitor 121.725 while electronic equipments dials Detroit CLNC DEL/Lansing FSS.

> (See HOLLAND) (See CARO)

TULIP CITY

TUSCOLA AREA

UNIVERSITY AIRPARK (See BATH)

VAN CAMP'S HELIPORT (See TECUMSEH)

VAN WAGNEN (See NAPOLEON)

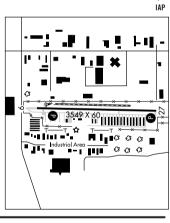
G GG ***** +300 M G G ය යු n ଓ ଓଡ଼ିଆ n **4**3 C3 C3 ଓ ଓ ଓ ଓ C3 C3 C3 **3 3** Δž C C C C3 Œ €3 €3 G G G G C3 C3 (3 €3 C3 ~ €3 C3 C3 63 G €3 n C3 C3 CX Œ €3 C3 C3 €3 Œ ⟨3 a a a f a 03 03 C3 C3 Ω €3 €3 43 a

GREEN BAY

DETROIT

COPTER

L-28J. A



MICHIGAN WATERVLIET MUNI (4ØC) 1 NE UTC-5(-4DT) N42°12.00′ W86°15.00′ NOTAM FILE LAN 656

RWY 25: Trees.

RWY 07-25: 1975X200 (TURF) (LOCAL USE ONLY)

RWY 20: Thid dspicd 771'. Trees.

AIRPORT REMARKS: Unattended, Ultralight activity, Rwy 02-20 and Rwy 07-25 soft when wet and during spring; Rwys have poor drainage. Rwy 02-20 and dsplcd thld marked with 3' yellow cones. Rwy 07-25 defined by mowing.

1 N UTC-5(-4DT) N42°41.50′ W85°38.75′

RWY 01-19: 2200X75 (TURF) RWY 01: Thid dsplcd 800'. Building. RWY 19: Tree. RWY 09-27: 1800X100 (TURF) RWY 27. Tree

(Y31)

3 SE

UTC-5(-4DT)

0.4% up W

N44°14.57′ W84°11.03′ at fld. 884/6W.

NOTAM FILE LAN

EC. 23 SEP 2010 to 18 NOV 2010

MIRL

RWY 09: Thid dspicd 200'. Trees. AIRPORT REMARKS: Unattended. No snow removal-verify conditions call 616-889-5971 (manager's cell) or 616-813-8903 (Asst mgr). Rwy 09-27 surface rough and uneven, soft when wet. Rwy 01-19 local use only. Rwy 09-27 and Rwy 01-19 and dsplcd thids marked with 3' yellow cones.

COMMUNICATIONS: CTAF 122.9

RWY 02-20: 2600X200 (TURF) RWY 02: Thid dsplcd 603'. Trees.

COMMUNICATIONS: CTAF 122 9

(41C)

NOTAM FILE LAN

RWY 07: Trees.

208

WAYLAND CALKINS FLD

740

WEIDMAN OJIBWA AIRPARK NOTAM FILE LAN

(D11) 3NW UTC-5(-4DT) N43°43,20′ W85°00,17′ RWY 05-23: 3600X125 (TURE) LIRI RWY 05: Thid dspicd 700'. Road. AIRPORT REMARKS: Attended Apr-Nov irregularly. Arpt CLOSED when snow covered except ski equipped acft;

soft when wet. Trees both sides of rwy. Rwy 05 and Rwy 23 marked with 3' yellow cones. COMMUNICATIONS: CTAF 122.9

WELKE (See BEAVER ISLAND) WELLS (See ROCKFORD) WEND VALLEY

(See CHARLOTTE) WEST BRANCH COMMUNITY S4 FUEL 100LL, JET A RWY 09-27: H5000X100 (ASPH) S-26 RWY 09: REIL. PAPI(P4L)-GA 3.0° TCH 41'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡, Sat-Sun 1400-2200Z‡. For attendant after hrs call 989-345-3524; svc charge. Deer on and invof arpt. ACTIVATE MIRL Rwy 09-27; PAPI and REIL Rwys 09 and 27—CTAF

COMMUNICATIONS: CTAF/UNICOM 122.8 RCO 122.35 (LANSING RADIO) MINNEAPOLIS CENTER APP/DEP CON 125.475 RADIO AIDS TO NAVIGATION: NOTAM FILE LAN.

(T)VORW/DME 113.2

DME unusable 020°-205° byd 19 NM blo 3000′, 205°-020° byd 19 NM blo 3500′.

WESTPHALIA FOREST HILL (3F5) 6SE UTC-5(-4DT) N42°54.74′ W84°40.53′ NOTAM FILE LAN RWY 09-27: 2070X80 (TURF) RWY 09: Trees. RWY 27: Trees.

RX7

Chan 79

RWY 18-36: 1900X80 (TURF) RWY 18: Thid dspicd 185'. Road. RWY 36: Thid dspicd 380'. Tree. AIRPORT REMARKS: Unattended. Deer and birds on and invof arpt. Rwy 09-27 and Rwy 18-36 soft in spring. Rwy 09 has a 30' p-line in apch 606' from thld. Rwy 09-27 and Rwy 18-36 edges and dsplcd thlds marked with 3' vellow cones. COMMUNICATIONS: CTAF 122.9

WEXFORD CO (See CADILLAC)

CHICAGO

CHICAGO

CHICAGO

RWY 23: Thid dspicd 400'. Trees. approximately Nov thru Apr. Rwy 05 has 14' road and 3' fence at thld, and tall trees all quads. Rwy 23 E 400' is

N44°14.69' W84°10.79'

LAKE HIIRON H-11A, L-31C RWY 27: REIL. PAPI(P4L)-GA 3.0° TCH 41'. Trees.

IAP

DETROIT

COMMUNICATIONS: CTAF 122.9

210 **MICHIGAN**

YALE (D2Ø) 1 SE UTC-5(-4DT) N43°06.75′ W82°47.25′

NDB (LOM) 359 YI 052° 5.6 NM to Willow Run, Unmonitored.

814 NOTAM FILE LAN RWY 09-27: 2300X110 (TURF)

RWY 27: Thid dsplcd 300'. Brush. RWY 09: Thid dsplcd 315'. Road.

AIRPORT REMARKS: Attended irregularly. Rwy 09-27 soft in spring. Rwy 09-27 and dsplcd thids marked with cones; pails and tires.

COMMUNICATIONS: CTAF 122.9

YIPPS N42°10.45′ W83°37.29′ NOTAM FILE YIP.

DETROIT

CHICAGO

DETROIT

YUBA (See ELK RAPIDS)

ZEELAND

OTTAWA EXECUTIVE (Z98) 3 E UTC-5(-4DT) N42°49.04′ W85°55.69′

740 S4 FUEL 100LL NOTAM FILE LAN

RWY 02-20: H3800X60 (ASPH) LIRL

RWY 02: Thid dspicd 294'. RWY 20: Thid dspicd 191'. Tree.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 02: TORA-3609 TODA-3800 ASDA-3609 LDA-3315 RWY 20: TORA-3506 TODA-3800 ASDA-3590 LDA-3399 AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. 200' Igtd antenna

approximately 1900' NE of Rwy 20. Rwy slopes up from S to N. ACTIVATE LIRL Rwy 02-20-CTAF, 5 clicks on SS-SR.

COMMUNICATIONS: CTAF 122.9 RADIO AIDS TO NAVIGATION: NOTAM FILE GRR.

GRAND RAPIDS (H) VOR/DME 115.95 GRR Chan 106(Y) N42°47.20′ W85°29.83′ 280° 19.1 NM to fld.

803/4W. DME unmonitored.



2010 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During calendar year 2010, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system.

| ongly encou | | | | • |
|-------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ictions. | | | | |
| scheduled 2 | 2010 aerial demonstratio | on locations, subject to c | hange without notice, are | : : |
| | USAF Thunderbirds | USN Blue Angels | USA Golden Knights | Canadian Snowbirds |
| 25-26 | | MCAS Kaneohe | | Chico, CA |
| | McConnell AFB, KS | Bay, HI | | |
| | | | | |
| 1-3 | | MCAS Miramar, CA | | MCAS Miramar, CA |
| 2-3 | Salinas, CA | | MCAS Miramar, CA | |
| 2-3 | | | Jackson, MS | |
| 9-10 | Little Rock AFB, AR | San Francisco, CA | Little Rock, AFB, AR | Daytona Beach, FL |
| 16-17 | El Paso, TX | Dobbins AFB, GA | El Paso, TX | Atlanta, GA |
| 23-24 | | NAS Jacksonville, | | |
| | Houston, TX | FL | Washington, DC | |
| 30-31 | | Ft Worth Alliance, | Ft Worth Alliance, | |
| | Cocoa Beach, FL | TX | TX | |
| | | | | |
| 6-7 | Lackland AFB, TX | Homestead ARB, FL | Lackland AFB, TX | |
| 6-7 | | | Homestead ARB, FL | |
| 11-14 | | | Ft Bragg, NC | |
| 12-13 | | NAS Pensacola, FL | | |
| 13-14 | Nellis AFB, NV | | | |
| | 1-3
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16-17
23-24
30-31 | ongly encouraged to check FDC Noticitions. scheduled 2010 aerial demonstration USAF Thunderbirds 25-26 McConnell AFB, KS 1-3 2-3 Salinas, CA 2-3 9-10 Little Rock AFB, AR 16-17 El Paso, TX 23-24 Houston, TX 30-31 Cocoa Beach, FL 6-7 Lackland AFB, TX 6-7 11-14 12-13 | ongly encouraged to check FDC NOTAMs to verify they have incitions. Scheduled 2010 aerial demonstration locations, subject to complete the complete to complete the complete | Scheduled 2010 aerial demonstration locations, subject to change without notice, are USAF Thunderbirds USN Blue Angels USA Golden Knights MCAS Kaneohe Bay, HI 1-3 MCAS Miramar, CA 2-3 Salinas, CA MCAS Miramar, CA Jackson, MS 9-10 Little Rock AFB, AR San Francisco, CA Little Rock, AFB, AR 16-17 El Paso, TX Dobbins AFB, GA El Paso, TX Washington, DC TX 30-31 Ft Worth Alliance, TX TX 6-7 Lackland AFB, TX Homestead ARB, FL Lackland AFB, TX Ft Bragg, NC NAS Pensacola, FL |

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding any airspace restrictions.

CABAA VISUAL DEPARTURE CHICAGO EXECUTIVE AIRPORT

CABAA Visual- Fort Sheridan Transition RWY 16

After take-off complete a **LEFT** turn within 1 NM form the departure end of RWY 16 inside the AON Office Building. Proceed on a 040° course from the AON Office Building. Once established on course contact Departure to activate your IFR clearance.

Climb and maintain 2000' or as assigned.

CABAA Visual- Bangs Lake Transition RWY 16

After take-off complete a **RIGHT** turn within 1 NM from the departure end of RWY 16 inside the Randhurst Shopping Center. Proceed on a 320° course from the Randhurst Shopping Center to Bangs Lake Wauconda. Once established on course contact Departure to activate your IFR clearance.

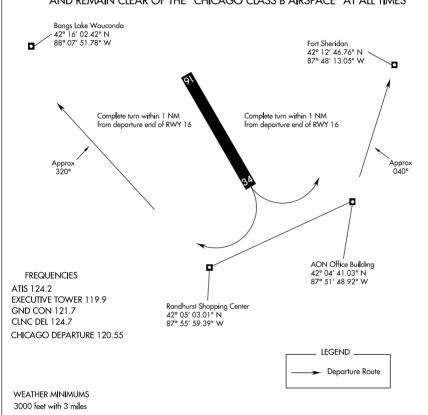
Climb and maintain 2400' or as assigned.

ALL AIRCRAFT REQUESTING THE "CABAA VISUAL DEPARTURE" MUST REMAIN CLEAR OF THE CLASS B AIRSPACE AT ALL TIMES.

TERMINAL AREA GRAPHIC NOTICE Not to be used for Navigation/Not to Scale

CABAA VISUAL DEPARTURE CHICAGO EXECUTIVE (PWK)

ALL AIRCRAFT REQUESTING THE "CABAA" VISUAL DEPARTURE" MUST MAINTAIN VFR AND REMAIN CLEAR OF THE "CHICAGO CLASS B AIRSPACE" AT ALL TIMES



CABAA VISUAL to FORT SHERIDAN Transition Rwy 16

After take-off proceed on a 040° course to Fort Sheridan. Climb and maintain 2000' or as assigned. Once established on course contact Chicago Departure to activate your IFR clearance.

CABAA VISUAL to BANGS LAKE Transition Rwy 16

After take-off proceed on a 320° course to Bangs Lake Wauconda. Climb and maintain 2400' or as assigned. Once established on course contact Chicago Departure to activate your IFR clearance.

SPECIAL NOTICES 332

MODEL ROCKET ACTIVITY IN ILLINOIS Hillsboro Municipal Airport (3K4), Hillsboro, IL

Model Rocket activity will be conducted within a 2 NM radius of the VLA273011, SFC to 8,000 Feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

Tuscola Airport (K96), Tuscola, IL Model Rocket activity will be conducted within a 2 NM radius of Tuscola Airport (K96), SFC to 10,000 feet MSL, SR-SS. For

further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

AEROBATIC PRACTICE AREAS IN ILLINOIS

Litchfield Municipal Airport (3LF), Litchfield, IL

Aerobatic practice will be conducted within 2 NM radius of Litchfield Municipal Airport (3LF), from 1,700 feet MSL to 4,200

feet MSL. The practice area is for waiver holders only. Pilots should use caution when opr within this area. For further

information contact Flight Services at 1-800-WX-BRIEF (992-7433).

Smith Airport (LL27), Macomb, IL

Aerobatic practice will be conducted within 2 NM radius of Smith Airport (LL27), SFC to 4,100 feet MSL, SR-SS. For further

information contact Flight Services at 1-800-WX-BRIEF (992-7433).

Williamson County Regional Airport (MWA), Marion, IL Aerobatic practice will be conducted within 1 NM radius of Williamson County Regional Airport (MWA), SFC to 5.000 feet

MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

Pinckneyville-DuQuoin Airport (PJY), Pinckneyville, IL

Aerobatic practice will be conducted within 2 NM radius of Pinckneyville-DuQuoin Airport (PJY), SFC to 3,900 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

Springfield IL, Abraham Lincoln Capital Airport (SPI)

feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

Aerobatic practice will be conducted within 1.5 NM radius of Springfield VOR SPI160010, from 2,100 feet MSL to 4,600

AEROBATIC PRACTICE AREA

Norris Field (8II2), Richmond, IN

Aerobatic Flight Activity will be conducted within 1 (one) NM radius of the Richmond (RID) VORTAC 193R/6 DME. Flights will

occur from 800' AGL to 3,500' AGL. Pilots should use caution when operating within this area. For further information,

AEROBATIC PRACTICE AREA

Skyway Estates Airport (60G), Eaton Rapids, MI

Aerobatic Flight Activity will be conducted within a 1 (one) NM radius of the Lansing (LAN) VORTAC 171R/8DME. Flights will

occur from SR to SS from 2,500 MSL to 6,000 MSL.

Pilots should use caution when operating within this area. For further information, contact Lansing ATCT at

1-517-321-1355 or freq, 119.9.

Search Light Activity

Dayton, OH

Search light activity will be conducted at the Dayton Schuster Performing Arts Center, Dayton, OH (FFO VORTAC 241/7.23, Lat 39-45-39.56N, Lon 084-11-32.94W) at and above 1500 MSL, from dusk until midnight. Searchlight beams may be injurious to pilots/passengers eyes at 1500 MSL and above. Flash blindness or cockpit illumination may occur at greater distances, to several miles. For further information, contact Dayton AFSS at 937-454-8398.

Contact Dayton APP CON at 1-937-454-7310 or freg. 134.45.

EC. 23 SEP 2010 to 18 NOV 2010

COMMUNICATIONS ADVISORIES

Indianapolis ARTCC NABB INDIANA AREA

New Hope, London, Lexington Kentucky Area

720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along

While in this area of Indianapolis Center, pilots witout 720-channel capability will, in most cases, monitor Flight Service

Indianpolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio

with any other direct communication services will not be available.

capability. Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a

Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD) CHICAGO, ILLINOIS

Chicago O'Hare International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise. This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below

Runway 10 at Taxiway ZH Runway 14L at Taxiway U2 Runway 14L at Taxiway V

Runway 28 at Taxiway ZW Runway 28 at Taxiway ZV Runway 32R at Taxiway V

Runway 32L at Taxiway T10

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower unless the aircraft's position can be verified by the Airport Surface Detection Equipment (ASDE) prior to the

used for departures only, departures shall not be permitted from any point on the runway other than the intersections listed above, and only one aircraft at a time is permitted to taxi into position and hold on each respective runway.

INDIANAPOLIS INTERNATIONAL AIRPORT (IND) INDIANAPOLIS, INDIANA Indianapolis International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control

tower from taxiing an aircraft into "'position and hold" at an intersection, between sunset and sunrise. This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below.

issuance of a departure clearance. When the provisions of this waiver are being exercised, the affected runways shall be

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS

Runway 23L at Taxiways "C2" and "D2"

Runway 23R at Taxiways "A2" and "B2" Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not

visible from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for

departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft cannot be taxied into "position and hold" prior to takeoff clearance.

listed below.

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS GENERAL MITCHELL INTERNATIONAL AIRPORT (MKE) MILWAUKEE. WISCONSIN

Milwaukee Mitchell International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise. This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersection

Runway 19R at Taxiway Victor Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runway shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise.

SIMULTANEOUS OPPOSITE DIRECTION OPERATIONS CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD)

CHICAGO, ILLINOIS Chicago O'Hare International (ORD) Airport Traffic Control Tower (ATCT) has been authorized to conduct arrivals to Runways 14L & 14R while conducting simultaneous opposite direction departures off of runways 09R & 28 during IFR weather

conditions. ORD ATCT is authorized to conduct simultaneous converging instrument approaches to runways 14R & 22R while conducting simultaneous opposite direction departures off of runways O9R & 28 during weather conditions.

Chicago O'Hare International Airport Traffic Control Tower and Chicago TRACON have been authorized to conduct

SIMULTANEOUS ILS APPROACHES WITH ONE GLIDE SLOPE OUT OF SERVICE CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD) CHICAGO. ILLINOIS

independent simultaneous ILS approaches with the glide slope of one parallel runway inoperative. ILS PRM (SIMULTANEOUS CLOSE PARALLEL) PROCEDURE FOR

PILOTS FILING FLIGHT PLANS TO CLEVELAND-HOPKINS INTERNATIONAL (CLE)

Effective Thursday, May 12, 2005. During the hours of 0700-2200 local, CLE ATCT may utilize ILS PRM and LDA PRM apchs to Runways 6L/6R as weather and arrival traffic demand dictate. Aircraft arriving from the west and north (primarily

over ZABER and HIMEZ INT.) should expect ILS PRM Runway 6L, aircraft arriving from the east and south (primarily over CXR and KEATN INT.) should expect LDA PRM Runway 6R. If unable to participate in PRM apchs acft operators are required to contact FAA ATCSCC directly at 1-800-333-4286 or at 703-904-4452 prior to departure to obtain a pre-coordinated arrival time. Non-participating acft may encounter DLAS attributable to PRM flow. Pilot requirements and procedures are

outlined in the U.S. Terminal Procedures Publications on the pages entitled Attention All Users of ILS Precision Runway

SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

North Atlantic area: 123.45 MHz 123.45 MHz Caribbean area: Pacific area: 123.45 MHz

Monitor (PRM) or LDA Precision Runway Monitor (PRM).

Frequencies have been designated as follows:

CHICAGO, ILLINOIS CHICAGO O'HARE VOR/DME DME unlocks can occur periodically due to ground station overload when more than 100 aircraft interrogations are

received at the same time. The problem may occur when aircraft are being held in the Chicago (O'Hare) terminal area awaiting approach clearance at O'Hare. Possibilities of the problem occurring are reduced by users deactivating interrogators during nonuse or switching to an ILS DME whenever possible. Deactivating interrogators on the ground is especially important since nearby aircraft cause more overload than distant ones.

MILITARY TRAINING ROUTES The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all

military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data

CIVIL USE OF MILITARY FIELDS U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded

Army installations, prior permission is required from the Commanding Officer of the installation. For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing

direct to Hg USAF (PRPOC), Washington, D.C. 20330.

for military users.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations, prior permission should be requested at least 30 days prior to first intended

landing

Commanding Officer of the field.

An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the U.S.Navy or Marine Corps aviation activity. For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water

areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government public use airport or seaplane base.

agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated

Landing of aircraft is prohibited on lands and waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

EC. 23 SEP 2010 to 18 NOV 2010

equi

CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply. In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been

included in this program for a selected runway.

03R

22

01L

03

08L

05L

07

19R

- 1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers) 2. Wind Measuring Capability

- 3. Approach Light System (ALS) or Short ALS (SALS)
- 4. Ceiling Measuring Capability
- 5. Touchdown Zone Lighting (TDZL) 6. Centerline Lighting (CL)

Detroit, MI (DTW)

El Paso, TX (ELP)

Fairbanks, AK (FAI)

Great Falls, MT (GTF).....

Honolulu, HI (HNL)

Houston, TX (IAH).....

Indianapolis, IN (IND)

Jacksonville, FL (JAX).....

Kansas City, MO (MCI).....

- Th

| Runway Visual Range (RVR) | | | |
|---------------------------------------------|-------------------|--------------------------------------|-----------------------|
| 8. High Intensity Runway Lighting (H | IRL) | | |
| 9. Taxiway Lighting | | | |
| 10. Apron Light (Perimeter Only) | | | |
| he following have been designated | "Continuous Power | Airports," and have independent back | up capability for the |
| uipment installed. | | | |
| Airport/Ident | Runway No. | Airport/Ident | Runway No. |
| Albuquerque, NM (ABQ) | 08 | Milwaukee, WI (MKE) | 01L |
| Anchorage, AK (ANC) | 07R | Minneapolis, MN (MSP) | 30L |
| Andrews AFB, MD (ADW) | 01L | Nashville, TN (BNA) | 02L |
| Atlanta, GA (ATL) | 09R | New Orleans, LA (MSY) | 10 |
| Baltimore, MD (BWI) | 10 | New York, NY (JFK) | 04R |
| Bismarck, ND (BIS) | 31 | New York, NY (LGA) | 22 |
| Boise, ID (BOI) | 10R | Newark, NJ (EWR) | 04R |
| Boston, MA (BOS) | 04R | Oklahoma City, OK (OKC) | 35R |
| Charlotte, NC (CLT) | 36L | Omaha, NE (OMA)) | 14R |
| Chicago, IL (ORD) | 10 | Ontario, CA (ONT) | 26L |
| Cincinnati, OH (CVG) | 36C | Philadelphia, PA (PHL) | 09R |
| Cleveland, OH (CLE) | 06R | Phoenix, AZ (PHX) | 08 |
| Dallas/Fort Worth, TX (DFW) | 17C | Pittsburgh, PA (PIT) | 10L |
| Denver, CO (DEN) | 35R | Reno, NV (RNO) | 16R |
| Des Moines, IA (DSM) | 31 | Salt Lake City, UT (SLC) | 34L |
| | | | |

12R

09

28R

80

16C

30R

36L

36R

01

San Antonio, TX (SAT).....

San Diego, CA (SAN).....

San Francisco, CA (SFO)

San Juan, PR (SJU).....

Seattle, WA (SEA)

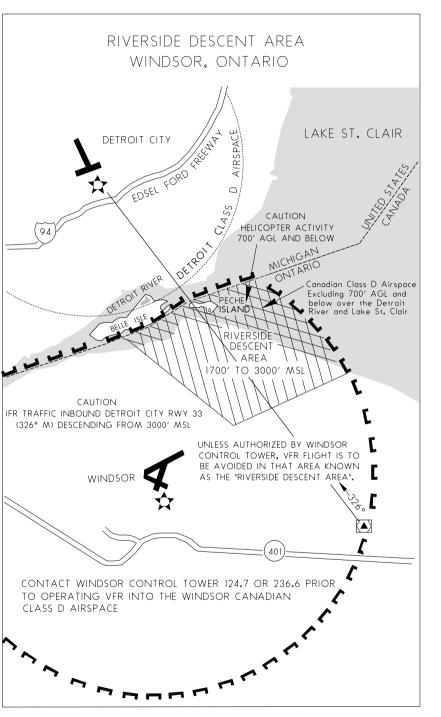
St. Louis, MO (STL)

Tampa, FL (TPA))

Tulsa, OK (TUL).....

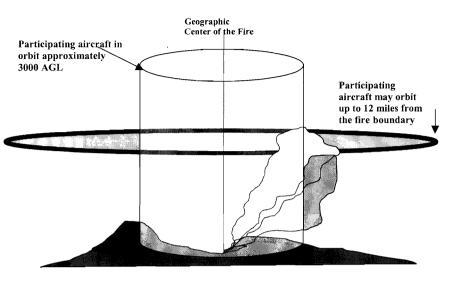
Washington, DC (DCA)

designation.



EC. 23 SEP 2010 to 18 NOV 2010

FIREFIGHTING TRAFFIC AREAS



Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.

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The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

LORAIN (ELYRIA), OHIO LORAIN COUNTY AIRPORT TRAFFIC RULE Part 93, Subpart J, requires each person piloting an airplane landing at the Lorain County Rgnl Airport shall enter the

traffic pattern north of the airport and shall execute a right traffic pattern for a landing to the southwest or a left traffic

pattern for a landing to the northeast. Each person taking off from the airport shall execute departure turn to the north as soon as practicable after takeoff.

KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K,

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS

REGULATORY NOTICES

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical

and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time. Reservation procedures are detailed in Advisory Circular 93-1, Reservations for Unscheduled Operations at High Density

Traffic Airports. A copy of the advisory circular is available on the FAA website at http://www.faa.gov. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights. The toll-free telephone number for accessing e-CVRS is 1-800-875-9694 and is available for calls originating within the

United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703-707-0568. The Internet web address for accessing the e-CVRS is http://www.fly.faa.gov/ecvrs. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport

Reservation Office at the Air Traffic Control System Command Center at (703) 904-4452. Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted

HDTA if additional operational limits or procedures are required by NOTAM and/or regulation. Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904-4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

beginning at 11 a.m. on the previous Monday. IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an

advance reservation through e-CVRS.

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FSS TELEPHONE NUMBERS Flight Service Station (FSS) facilities provide flight planning and weather briefing services to pilots. FSS services in the

contiguous United States, Hawaii and Puerto Rico, are provided by a network of large FSS facilities and a few select remote facilities some of which operate part-time. Because of the interconnectivity between the facilities, all FSS services including radio frequencies are available continuously using published data.

Telephone Information Briefing Service (TIBS) is a FSS service that provides continuous recordings of meteorological and/or aeronautical information. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL FSS TELEPHONE NUMBER

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

 TIBS (see description above)
 1-877-47IBS-WX (1-877-484-2799)

 Clearance Delivery Only
 1-888-766-8267

 Lifeguard Flights Only
 1-877-LIF-GRD3 (1-877-543-4733)

* District of Columbia Special Flight Rules Area & Flight Restricted Zone

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KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

TAF KPIT 091730Z 091818 15005KT 5SM HZ FEW020 WS010/31022KT FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA OVC008CB FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB 18/16 A2992 RMK SLP045 T01820159 Forecast Explanation Report TAF Message type: TAF-routine or TAF AMD-amended forecast, METAR-METAR hourly, SPECI-special or TESTM-non-commissioned ASOS report **KPIT** ICAO location indicator **KPIT** 091730Z Issuance time: ALL times in UTC "Z", 2-digit date, 4-digit time 091955Z 091818 Valid period: 2-digit date, 2-digit beginning, 2-digit ending times In U.S. METAR: CORrected ob; or AUTOmated ob for automated COR report with no human intervention; omitted when observer logs on 15005KT 22015G25KT Wind: 3 digit true-north direction, nearest 10 degrees (or VaRiaBle); next 2-3 digits for speed and unit, KT (KMH or MPS); as needed, Gust and maximum speed; 00000KT for calm; for METAR, if direction varies 60 degrees or more. Variability appended, e.g. 180V260 5SM Prevailing visibility: in U.S., Statute Miles & fractions; above 6 3/4SM miles in TAF Plus6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction) R28L/2600FT Runway Visual Range: R; 2-digit runway designator Left, Center, or Right as needed; "/"; Minus or Plus in U.S., 4-digit value, FeeT in U.S., (usually meters elsewhere); 4-digit value Variability 4-digit value (and tendency Down, Up or No change) ΗZ Significant present, forecast and recent weather: see table (on back) **TSRA** OVC010CB **FEW020** Cloud amount, height and type: SKy Clear 0/8, FEW >0/8-2/8, SCaTtered 3/8-4/8, BroKeN 5/8-7/8, OVerCast 8/8; 3-digit height in hundreds of ft; Towering CUmulus or CumulonimBus in METAR; in TAF, only CB. Vertical Visibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, CLeaR for "clear below 12,000 feet" 18/16 Temperature: degrees Celsius; first 2 digits, temperature "/" last 2 digits, dew-point temperature; Minus for below zero, e.g., M06 Altimeter setting: indicator and 4 digits; in U.S., A-inches and A2992 hundredths; (Q-hectoPascals, e.g., Q1013)

KEY to AERODROME FORECAST (TAF) and **AVIATION ROUTINE WEATHER REPORT** (METAR)

Explanation Report **Forecast** WS010/31022KT In U.S. TAF, non-convective low-level (≤2,000 ft) Wind Shear; 3-digit height (hundreds of ft); "/"; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, KT RMK In METAR, ReMarK indicator & remarks. For example: Sea-Level **SLP045** Pressure in hectoPascals & tenths, as shown: 1004.5 hPa: Temp/ T01820159 dew-point in tenths °C, as shown; temp. 18.2°C, dew-point 15.9°C FM1930 FroM and 2-digit hour and 2-digit minute beginning time; indicates significant change. Each FM starts on new line, indented 5 spaces. **TEMPO 2022** TEMPOrary: changes expected for < 1 hour and in total, < half of 2-digit hour **beginning** and 2-digit hour **ending** time period PROB40 0407 PROBability and 2-digit percent (30 or 40): probable condition during 2-digit hour beginning and 2-digit hour ending time period **BECMG 1315** BECoMinG: change expected during 2-digit hour beginning and 2-digit hour ending time period Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather. **QUALIFIER** Intensity or Proximity "no sign" Moderate + Heavy

PR Partial

DR Drifting

SN Snow

GR Hail

TS Thunderstorm

SG Snow grains

VA Volcanic ash

DU Widespread dust

PO Well developed

UNITED STATES DEPARTMENT OF COMMERCE

dust/sand whirls

GS Small hail/snow pellets

FZ Freezing

- Light VC Vicinity: but not at aerodrome; in U.S. METAR, between 5 and 10SM of the point(s) of

- observation; in U.S. TAF, 5 to 10SM from center of runway complex (elsewhere within 8000m)
- Descriptor
- - MI Shallow
- BL Blowing SH Showers WEATHER PHENOMENA
- Precipitation
- DZ Drizzle RA Rain PL Ice pellets
- IC Ice crystals
- UP Unknown precipitation in automated observations Obscuration
 - BR Mist (≥5/8SM) FG Fog (<5/8SM) FU Smoke

BC Patches

- PY Spray SA Sand HZ Haze
- Other SQ Squall SS Sandstorm
- DS Duststorm FC Funnel cloud +FC tornado/waterspout
- Explanations in parentheses "()" indicate different worldwide practices.
 Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS TAFs exclude turbulence, icing & temperature forecasts; NWS METARs exclude trend fcsts Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥10 km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.
- National Oceanic and Atmospheric Administration—National Weather Service NOAA/PA 96052

FAA AND NWS

KEY AIR TRAFFIC FACILITIES

Air Traffic Control System Command Center

Main Number......703–904–4400

| RGNL AIR TRAFFIC DIVISIONS | | |
|----------------------------|--------------|--|
| REGION | TELEPHONE | |
| Alaskan | 907-271-5464 | |
| Central | 816-329-2500 | |
| Eastern | 718-553-4502 | |
| Great Lakes | 847-294-7202 | |
| New England | 781-238-7500 | |
| Northwest Mountain | 425-227-2500 | |
| Southern | 404-305-5500 | |
| Southwest | 817-222-5500 | |
| Western Pacific | 310-725-6500 | |

AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

*24 HR RGNL

| ARTCC
NAME | DUTY OFFICE
TELEPHONE # | BUSINESS
Hours | BUSINESS
TELEPHONE # |
|----------------|----------------------------|-------------------|-------------------------|
| Albuquerque | 817-222-5006 | 7:30 a.m4:00 p.m. | 505-856-4300 |
| Anchorage | 907-271-5936 | 7:30 a.m4:00 p.m. | 907-269-1137 |
| Atlanta | 404-305-5180 | 7:30 a.m5:00 p.m. | 770-210-7601 |
| Boston | 617-238-7001 | 7:30 a.m4:00 p.m. | 603-879-6633 |
| Chicago | 847-294-8400 | 8:00 a.m4:00 p.m. | 630-906-8221 |
| Cleveland | 847-294-8400 | 8:00 a.m4:00 p.m. | 440-774-0310 |
| Denver | 425-227-1389 | 7:30 a.m4:00 p.m. | 303-651-4100 |
| Ft. Worth | 817-222-5006 | 7:30 a.m4:00 p.m. | 817-858-7300 |
| Houston | 817-222-5006 | 7:30 a.m4:00 p.m. | 281-230-5300 |
| Indianapolis | 847-294-8400 | 8:00 a.m4:00 p.m. | 317-247-2231 |
| Jacksonville | 404-305-5180 | 8:00 a.m4:30 p.m. | 904-549-1501 |
| Kansas City | 816-329-3000 | 7:30 a.m4:00 p.m. | 913-254-8500 |
| Los Angeles | 661-265-8200 | 7:30 a.m4:00 p.m. | 661-265-8200 |
| Memphis | 404-305-5180 | 7:30 a.m4:00 p.m. | 901-368-8103 |
| Miami | 404-305-5180 | 7:00 a.m3:30 p.m. | 305-716-1500 |
| Minneapolis | 847-294-8400 | 8:00 a.m4:00 p.m. | 651-463-5580 |
| New York | 718-995-5426 | 8:00 a.m4:40 p.m. | 516-468-1001 |
| Oakland | 310-725-3300 | 6:30 a.m3:00 p.m. | 510-745-3331 |
| Salt Lake City | 425-227-1389 | 7:30 a.m4:00 p.m. | 801-320-2500 |
| Seattle | 425-227-1389 | 7:30 a.m4:00 p.m. | 253-351-3500 |
| Washington | 718-995-5426 | 8:00 a.m4:30 p.m. | 703-771-3401 |

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

| TRACON
NAME | *24 HR RGNL
DUTY OFFICE
TELEPHONE # | BUSINESS
HOURS | BUSINESS
TELEPHONE # |
|------------------|-------------------------------------------|-------------------|-------------------------|
| Atlanta | 404-305-5180 | 7:00 a.m3:30 p.m. | 404-669-1200 |
| Chicago | 847-294-8400 | 8:00 a.m4:00 p.m. | 847-608-5509 |
| Dallas/Ft. Worth | 817-222-5006 | 7:30 a.m4:00 p.m. | 972-615-2500 |
| Denver | 425-227-1389 | 7:30 a.m4:00 p.m. | 303-342-1500 |
| Houston | 817-222-5006 | 7:30 a.m4:00 p.m. | 281-230-8400 |
| New York | 718-995-5426 | 8:00 a.m4:30 p.m. | 516-683-2901 |
| Northern CA | 310-725-3300 | 7:00 a.m3:30 p.m. | 916-366-4001 |
| Potomac | 718-995-5426 | 8:00 a.m4:30 p.m. | 540-349-7500 |
| Southern CA | 310-725-3300 | 7:30 a.m4:00 p.m. | 858-537-5800 |

^{*}Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

8:00 a.m.-5:00 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-5:30 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:00 p.m.

8:00 a.m.-4:00 p.m.

8:00 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

8:30 a.m.-5:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-3:30 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-3:30 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-5:00 p.m.

8:00 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-3:30 p.m.

7:30 a.m.-4:00 p.m.

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8:00 a.m.-4:00p.m.

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8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-5:00 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

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8:00 a.m.-4:30 p.m.

7:00 a.m.-3:30 p.m.

7:30 a.m.-5:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

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BUSINESS

TELEPHONE #

505-842-4366

301-735-2380

410-962-3555

617-455-3100

203-627-3428

818-567-4806

704-344-6487

773-884-3670

773-601-7600

216-898-2020

606-767-1006

972-615-2531

937-454-7300

303-342-1600

734-955-5000

907-474-0050

305-356-7932

713-230-8400

404-669-1200

808-840-6100

713-847-1400

317-484-6600

808-877-0725

816-329-2700

702-262-5978

310-342-4900

901-322-3350

504-471-4300

305-869-5400

612-713-4000

615-781-5460

718-656-0335

718-335-5461

973-565-5000

408-982-0750

909-983-7518

407-850-7000

215-492-4100

602-379-4226

412-269-9237

503-493-7500

919-840-5544

703-413-1535

801-325-9600

210-805-5507

619-299-0677

650-876-2883

809-253-8663

206-768-2900

314-890-1000

813-371-7700

907-271-2700

201-288-1889

571-323-6372

561-683-1867

914-948-6520

FAA AND NWS KEY AIR TRAFFIC FACILITIES

| | DAILY NAS REPORTABLE AIRPORTS | | |
|---------|-------------------------------|----------|--|
| | *24 HR RGNL | | |
| AIRPORT | DUTY OFFICE | BUSINESS | |
| NAME | TELEPHONE # | HOURS | |

Albuquerque Intl Sunport, NM

Andrews AFB, MD

Bradlev Intl. CT

Baltimore/Washington Intl Thurgood Marshall, MD

Boston Logan Intl, MA

Burbank/Bob Hope, CA

Chicago O'Hare Intl, IL

Chicago Midway, IL

Charlotte Douglas Intl. NC

Cleveland Hopkins Intl, OH

Covington/Cincinnati, OH

Dallas/Ft. Worth Intl, TX

Fort Lauderdale Intl, FL

Intercontinental/Houston, TX

Hartsfield-Jackson Atlanta Intl. GA

Louis Armstrong New Orleans Intl, LA

Norman Y. Mineta San Jose Intl, CA

Dayton Cox Intl. OH

Denver Intl. CO

George Bush

Honolulu Intl. HI

Houston Hobby, TX

Indianapolis Intl, IN

Kansas City Intl, MO

Las Vegas McCarran, NV Los Angeles Intl, CA

New York Kennedy Intl, NY

New York La Guardia, NY

Newark Liberty Intl, NJ

Kahului/Maui, HI

Memphis Intl, TN

Nashville Intl, TN

Ontario Intl, CA

Orlando Intl. FL

Philadelphia Intl, PA

Pittsburgh Intl, PA

Raleigh-Durham, NC

Salt Lake City, UT

San Juan Intl PR

Tampa Intl. FL

Teterboro, NJ

San Antonio Intl, TX

San Francisco Intl, CA

Seattle-Tacoma Intl, WA

St. Louis Lambert, MO

Portland Intl, OR

Phoenix Sky Harbor Intl, AZ

Ronald Reagan Washington National, DC

San Diego Lindbergh Intl, CA

Ted Stevens Anchorage Intl, AK

Washington Dulles Intl. DC

West Palm Beach, FL

Westchester Co, NY

Miami Intl, FL Minneapolis/St. Paul, MN

Detroit Metro, MI Fairbanks Intl, AK

817-222-5006

718-995-5426

718-995-5426

781-238-7001

617-238-7001

310-725-3300

404-305-5180

847-294-8400

847-294-8400

847-294-8400

708-294-7401

817-222-5006

847-294-8400

425-227-1389

847-294-8400

907-271-5936

404-305-5180

817-222-5006

404-305-5180

310-725-3300

817-222-5006

847-294-8400

310-725-3300

816-329-3000

310-725-3300

310-725-3300

404-305-5180

817-222-5006

404-305-5180

847-294-8400

404-305-5180

718-995-5426

718-995-5426

718-995-5426

310-725-3300

310-725-3300

404-305-5180

718-995-5426

310-725-3300

718-995-5426

425-227-1389

404-305-5180

718-995-5426

425-227-1389

817-222-5006

310-725-3300

310-725-3300

404-305-5180

425-227-1389

816-329-3000

404-305-5180

907-271-5936

718-995-5426

718-995-5426

404-305-5180

718-995-5426

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*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

RCHICAGO CENTER 127.8 126.275 125.2

H-2-5-10-12, L-12-27-28-31, A-1 (KZAU)

Aurora - 123.75 Burlington - 135.6

Chicago Heights - 132.95 Crown Point - 127.8

Danville - 135.75

Des Plaines - 133.2 128.65 120.35 Downers Grove - 135.75 127.6

Dubugue - 127.775 133.95 125.225

Ft. Wayne - 126.325 119.85

Goshen - 133.9 135.9 127.55

Grand Rapids - 126.125 128.4

Hampshire - 134.2 133.35 Horicon - 135.55 132.75 132.225

Jones - 125.975 120.225

Kankakee - 132.5 120.125 118.225 Lafayette - 123.85

Leroy - 119.225

Lone Rock - 133.3

Maple Park - 127.075

Milford - 135.4 132.5 127.45 125.05 120.175

Milwaukee - 134.75 132.3 125.1

Moline - 135.825 118.75 Monee - 133.425

Muskegon - 132.27

Oshkosh - 132.1

Pullman - 128.5

Rockford - 120.375

Rossville 125 375 120.975

South Bend - 135.35

Volk Fld 125.05

RCLEVELAND CENTER

Algonac - 134.775 132.25 126.525 Belmont - 135.175 124.425 120.4

Carleton - 134.775 119.95

Chardon - 120.775

Detroit (North) - 120.075

Findlay - 135.1 127.675

Flint - 127.7 126.75

Holland - 135.775 121.175

Jackson - 134.65 127.3

Litchfield - 135.725 134.65 120.45

Mansfield - 134.9 133.375

Mt Hope - 120.6

Paris - 128.15 120.6

Saginaw - 133.525 127.7

Sandusky - 132.45 127.9 119.875 119.325

Waterville - 128.625

H-2-5-10-11, L-27-28-29-30-31-32, A-2 (KZOB)

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| | L CENTERS 34 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| RINDIANAPOLIS CENTER - 133.425 132.775 128.375 125.55 124.525 119.55 Brookville - 135.8 135.125 120.575 Evansville - 132.525 128.3 Henryville - 134.275 133.05 124.775 London - 134.0 128.775 126.57 124.8 120.475 Marietta - 125.55 Merwyn - 135.575 134.7 123.925 Muncie - 120.65 New Hope - 124.625 121.175 Portsmouth - 135.575 135.75 124.225 120.275 Rosewood - 128.075 Terre Haute - 134.175 132.2 Winchester - 128.22 126.375 123.775 Zanesville - 133.775 132.825 125.075 124.45 | H–5–9–10–12, L–16–25–26–27–2
(KZID |
| R KANSAS CITY CENTER - 135.3 Decatur - 132.1 124.3 Effingham - 135.05 133.225 124.3 Kirksville - 134.625 132.6 Marion - 125.3 Mt Vernon - 132.875 127.7 Quincy - 135.525 St Charles - 125.9 121.25 St Louis - 128.1 127.225 125.5 Vandalia - 125.725 | H−5−6, L−10−15−16−27, A−
(KZKC |
| RMINNEAPOLIS CENTER Alpena – 125.475 Central Wisconsin – 124.4 Duluth – 134.675 134.55 134.55 127.9 Eau Claire – 133.75 125.3 Escanaba – 127.65 Farmington – 133.7 Flying Cloud – 133.7 121.05 Green Bay – 125.55 Hayward – 126.45 Houghton – 127.2 Iron Mountain – 133.45 121.25 Ironwood – 133.55 La Crosse – 128.6 118.85 Mosinee – 124.4 Oscoda – 125.475 Pellston – 134.6 132.425 Princeton – 121.05 Rhinelander – 123.725 133.65 Rochester – 132.35 Saginaw – 118.05 Sawyer – 119.1 Swinns Valley – 135.7 134.85 Traverse City – 132.9 White Cloud – 132.55 120.85 | H-2-5-10-11, L-10-12-13-14-27-28-3
(KZMF |

348 FLIGHT SERVICE STATION COMMUNICATION FREQUENCIES VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAIDS are listed after the NAVAID name. RCO's not at NAVAID's are listed by name. CLEVELAND AFSS

AKRON VOR/DME 114.4T 122.1R BELLAIRE VOR/DME 117.1T 122.1R BRIGGS VOR/DME 112.4T 122.1R

CHARDON VOR/DME 112.7T 122.1R
CLEVELAND RCO 122.1R 122.2 122.35
DRYER VOR/DME 113.6T 122.1R
FINDLAY VORTAC 108.2T 122.1R 122.2 122.65
JEFFERSON VOR/DME 115.2T 122.1R
MANSFIELD VORTAC 108.8T 122.1R 122.6
NEWCOMERSTOWN VOR/DME 111.8T 122.1R
SANDUSKY VOR/DME 109.2T 122.1R
WATERVILLE VOR/DME 113.1T 122.1R

WATERVILLE VOR/DME 113.17 122.1R
YOUNGSTOWN VORTAC 109.0T 122.1R 122.2
ZANESVILLE VOR/DME 111.4T 122.1R 122.2 122.5

DAYTON AFSS

ALLEN COUNTY VOR 108.4T 122.1R

ATHENS-ALBANY RCO 122.25
APPLETON VORTAC 116.7T 122.1R
CINCINNATI RCO 122.4
COLUMBUS RCO 122.2 122.3
DAYTON RCO 114.5T 122.1R 122.2 122.55
DAYTON VOR/DME 114.5T 122.1R
GALLIPOLIS RCO 121.65

HILLSBORO RCO 122.2 ROSEWOOD VORTAC 117.5T 122.1R YELLOW BUD VOR 112.5T 122.1R MILWAUKEE RCO 122.4 122.65 **MOSINEE RCO 122.525** NEWBERRY RCO 122.4 OSHKOSH VORTAC 111.8T 122.1R 122.25

PHILLIPS RCO 122.05 PLATTEVILLE RCO 122.5 PRAIRIE DIJ CHIEN RCO 122 25 RHINELANDER VORTAC 109.2T 122.1R RICE LAKE RCO 122.3 SAULT STE MARIE VOR/DME 112.2T 122.1R SAWYER RCO 123.6 SCHOOLCRAFT COUNTY RCO 122.25 SIREN VOR/DME 109.4T 122.1R STEVENS POINT VORTAC 110.6T 122.1R TIMMERMAN VOR/DME 112.5T 123.6R WAUSAU RCO 122.4 WEST BEND VOR 109.8T 122.1R WISCONSIN RAPIDS RCO 122.45 WOODRUFF RCO 122.6

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KANKAKEE AFSS

BLOOMINGTON VOR/DME 108.2T 123.6R BRADFORD VORTAC 114.7T 122.05R 123.6 CHICAGO HEIGHTS VORTAC 114.2T 122.1R

CHICAGO MEIGS RCO 122.15 DUPAGE VOR/DME 108.4T 122.1R 122.3

GALESBURG VOR/DME 109.8T 122.1R

JOLIET VORTAC 112.3T 122.1R 122.5 KANKAKEE VOR/DME 111.6T 122.1R 122.2

PEOTONE VORTAC 113.2T 122.05R POLO VOR/DME 111.2T 122.1R PONTIAC VOR/DME 109.6T 122.1R ROCKFORD VOR/DME 110.8T 122.1R 122.65

MACOMB RCO 122.15 MOLINE RCO 122.6 NEW LENOX RCO 122.5 PEORIA RCO 122.35

WAUKEGAN RCO 122.55

LANSING AFSS

ALPENA VORTAC 108.8T 122.1R BAD AXE RCO 122.65 BATTLE CREEK RCO 122.2 BARRIEN SPRINGS RCO 121.625 CARLETON VORTAC 115.7T 122.1R **DETROIT RCO 122.2 122.55**

FLINT RCO 122.3

GAYLORD RCO 122.55

GRAND RAPIDS VOR/DME 115.95T 122.1R

JACKSON RCO 122.2

KALAMAZOO VOR/DME 109.0T 122.1R KEELER VOR/DME 116.6T 122.1R

LANSING RCO 122.2

LITCHFIELD VOR/DME 111.2T 122.1R LUDINGTON RCO 122.45

MANISTEE VOR/DME 111.4T 122.1R

MOUNT PLEASANT RCO 122.6

MUSKEGON RCO 122 5

PECK VORTAC 114.0T 122.1R

PELLSTON RCO 122.2 122.3 123.6

PONTIAC VORTAC 111.0T 122.15R

PULLMAN VOR/DME 112.1T 122.1R

SAGINAW RCO 122.2 122.4 SALEM VORTAC 114.3T 122.1R

TRAVERSE CITY RCO 122.2 122.65

WEST BRANCH RCO 122.35 WHITE CLOUD VORTAC 117.6T 122.1R

SAINT LOUIS AFSS 122.2 122.45

BIBLE GROVE VORTAC 109.0T 122.05R

CENTRALIA VORTAC 115.0T 122.1R

CHAMPAIGN VORTAC 110.0T 122.1R 122.45

DANVILLE VORTAC 111.0T 122.1R

DECATUR VORTAC 117.2T 122.1R 122.3 MARION VOR/DME 110.4T 122.1R

MATTOON VOR/DME 109.4T 123.6R

MOUNT VERNON VOR/DME 113.8T 122.05R

OUINCY VORTAC 113.6T 122.1R 122.5

ROBERTS VOR/DME 116.8T 122.1R

SAINT LOUIS REGIONAL RCO 122.05

SAMSVILLE VOR/DME 116.6T 122.1R

SPINNER VORTAC 112.7T 122.25

VANDALIA VORTAC 114.3T 122.1R

TERRE HAUTE AFSS

CROWNPOINT RCO 123.65

EVANSVILLE RCO 122.65

FORT WAYNE RCO 122.2 122.45

GOSHEN VORTAC 113.7T 122.1R

HOOSIER VORTAC 110.2T 122.1R

INDIANAPOLIS RCO 122.55

KNOX VOR/DME 115.6T 122.1R KOKOMO VORTAC 113.5T 122.1R

LAFAYETTE RCO 122.2 122.35

MUNCIE VOR/DME 114.4T 122.1R NABB VORTAC 112.4T 122.1R

OSGOOD RCO 122.25

RICHMOND VORTAC 110.6T 122.1R

SHELBYVILLE VORTAC 112.0T 122.1R

SOUTH BEND RCO 122.6

TERRE HAUTE RCO 122.65

WASHINGTON RCO 122.2

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FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manage Flight Standards District Office–Federal Aviation Administration.

ILLINOIS

DuPage Airport 31W775 North Avenue West Chicago, Illinois 60185–1056 Telephone: 630–443–3100

Capital Airport 1250 North Airport Drive, Suite 1 Springfield, Illinois 62707-8417 Telephone: 217-744-1910

9950 West Lawrence Ave., Suite 400 Schiller Park, Illinois 60176 Telephone: 847–928–8000

INDIANA

1201 Columbia Road, Suite 101 Plainfield, Indiana 46168 Telephone: (317) 837–4400

5800 Nimtz Parkway South Bend, Indiana 46628 Telephone: (574) 245–4600

MICHIGAN

3196 Kraft Ave. SE, Suite 103 Grand Rapids, Michigan 49512 Telephone: 616–954–6657 Willow Run Airport 8800 Beck Road Belleville, Michigan 48111 Telephone: 734–487–7222

OHIO

Great Northern Technology Park II 25249 Country Club Blvd. North Olmsted, Ohio 44070 Telephone: 440–686–2001

Lunken Airport Executive Building Ground Floor 4242 Airport Road Cincinnati, Ohio 45226 Telephone: 513–979–6400

Port Columbus International Airport 2780 Airport Drive, Suite 300 Columbus, Ohio 43219 Telephone: 614–255–3120

WISCONSIN

General Mitchell Intl Airport 4915 S. Howell Ave. Milwaukee, Wisconsin 53207 Telephone: 414–486–2920

PRFFFRRFD IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

- 1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
- 2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
- 3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
- 4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
 - 5. Where more than one route is listed the routes have equal priority for use.
 - 6. Official location identifiers are used in the route description for VOR/VORTAC navaids.
 - 7. Intersection names are spelled out.
- 8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW031); or an intersection (e.g., GSW081 FITCH).
- Where two navaids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
- 10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
 - 11. (90-170 incl) altitude flight level assignment in hundred of feet.
- 12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
 - 13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.

| Sun | 1300-2259 | local time |
|--------------|-----------|------------|
| Mon thru Fri | 0701-2259 | local time |
| Sat | 0701-1459 | local time |

- 14. Use current SIDs and STARSs for flight planning.
- 15. For high altitude routes, the portion of the routes contained in brackets [] is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

LOW ALTITUDE

| | EOW ALTHODE | |
|-----------------------------------|--------------------------------------------|-----------------------------|
| Terminals | Route | Effective
Times
(UTC) |
| CHICAGO METRO AREA | | |
| From Midway (MDW) or O'Hare (ORD) | | |
| Atlanta (ATL) | EON V171 TTH V243 GQO V333 DALAS ATL | |
| Denver (DEN) | SIMMN V172 OBH V219 HCT V8 DVV | |
| Indianapolis (IND) | EON V399 KENLA V128 JELLS | |
| Louisville (LOU) | EON V171 TTH V243 IIU279 CHERI | 1100-0300 |
| Memphis (MEM) | RBS V429 MWA V67 CNG V11 MIOLA | 1600-2300 |
| Miami (MIA) | EON V171 TTH V243 LGC V321 PZD V159 CTY V7 | |
| | LAL V157 LBV V529 V35 CURVE | 1100-0300 |
| Pittsburgh (PIT) | GIJ V6 DJB V30 ACO V337 CUTTA | 1100-0300 |
| San Francisco (SFO) | SIMMN V172 PLL V158 DBQ V100 MBW V6 FMG | |
| | V6 | |
| Tampa (TPA) | EON V171 TTH V243 LGC V321 PZD V159 CTY | |
| | V35 ENDED | |
| | or | |
| | (GPS or DME/DME-IRU Equipped) EON V171 TTH | |
| | V243 LGC V321 PZD V159 CTY V35 ENDED | |
| Tulsa (TUL) | MZV BRL V63 SGF V14 | 0000-2359 |
| Washington Natl (DCA) | EON V144 ESL V4 MANNE | 1100-0300 |
| | | |

| PREFERRED IFR ROUTES | | 353 |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------|
| Terminals | Route | Effective
Times
(UTC) |
| From Midway (MDW) only | | |
| Des Moines (DSM) | SIMMN V172 TNU
GIJ V10 LFD MIZAR-STAR | 1100-0300 |
| Pontiac (PTK)
Willow Run (YIP)
Windsor (YQG) | GIJ V10 LFD CRUXX-STAR | |
| Young (DET)
Kansas City (MKC) | GIJ ELX V218 LAN SPRTN-STAR
MZV BRL V10 IRK BQS-STAR | 1100-0300 |
| Omaha (OMA) | SIMMN V172 OVR | 0000-2359 |
| Cleveland (CLE) | GIJ V6 VWV WAKEM-STAR | 1100-0300 |
| Des Moines (DSM) | SIMMN V172 TNU | 0000-2359 |
| Detroit Metro-Wayne Co (DTW) | PETTY MKG POLAR-STAR | |
| Young (DET) | MUSKY V100 ELX V218 LAN SPRTN-STAR | |
| Kansas City (MKC) | MZV BRL V10 IRK BQS-STAR | |
| Memphis (MEM) | RBS V429 MWA V67 CNG V11 MIOLA | 0000-2359 |
| Muskegon (MKG) | PETTY V216 | |
| Omaha (OMA) | SIMMN V172 OVR | 0000-2359 |
| Saginaw (MBS) From O'Hare (ORD) and North Satellite | PETTY MKG V216 | |
| Airports Detroit Metro-Wayne Co. (DTW) CINCINNATI METRO AREA (CVG, LUK) | (150-230 incl) PETTY MKG POLAR-STAR | 1100-0300 |
| Detroit/Wayne (DTW) | DQN MIZAR-STARor | 1100-0300 |
| | (RNAV only) HAGOL (RNAV)-DP DQN
MIZAR-STAR | 1100-0300 |
| Detroit Satellites: Ann Arbor (ARB) | DQN CRUXX-STARor | 1100-0300 |
| Pontiac, Willow Run (PTK, YIP) | (RNAV only) HAGOL (RNAV)–DP DQN CRUXX–STAR (RNAV only) HAGOL (RNAV)–DP DQN | 1100-0300 |
| | CRUXX-STAR
or
(all others) DQN CRUXX-STAR | |
| Windsor, Young (DET, YQG) | (RNAV only) HAGOL (RNAV)-DP DQN V275 KLINE
VXV VXV064 LYNTN | |
| From COVINGTON (CVG) only: | (all others) DQN V275 KLINE VWV VWV064 LYNTN | |
| Atlanta (ATL) | BLUEGRASS-DP HYK V97 VXV V267 HRS V463 WOMAC ATL | 1100-0300 |
| Chicago (MDW) | WHITEWATER-DP LOVEY VHP BVT V97 CGT
or
(RNAV only) LOVEY (RNAV)-DP LOVEY VHP BVT | 1100-0300 |
| Chicago (ORD) | V97 CGT(RNAV only) LOVEY (RNAV)–DP LOVEY VHP BVT | 1100-0300 |
| | V97 CGT V7 BEBEE
or
(all others) WHITEWATER-DP VHP BVT V97 CGT | 1100-0300 |
| | V7 BEBEE | 1100-0300 |
| Indianapolis (IND) | V128 VHP
(RNAV only) KENLN (RNAV)-DP HYK V97
or | 1100-0300 |
| Louisville (SDF) | (all others) BLUEGRASS-DP HYK V97
CVG206 IIU055 IIU | 1100-0300 |
| Pittsburgh (PIT) | (60–170 incl–RNAV only) GIPLE (RNAV)–DP YRK | 1100 0200 |
| | V44 JPU V117 WISKE WISKE-STAR
or | 1100-0300 |

| 4 PF | PREFERRED IFR ROUTES | | |
|---------------------------------------------------|----------------------------------------------------------------------------------------|------------------------|--|
| T | Pouto | Effective
Times | |
| Terminals | Route (all others, 60–170 incl) RHOMM–DP YRK V44 JPU V117 WISKE WISKE–STAR | (UTC)
1100-0300 | |
| CLEVELAND METRO AREA (CLE, CGF, | JPU VIII/ WISKE WISKE-STAK | 1100-0300 | |
| BKL, LNN, LPR) Baltimore (BWI) | (90-170 incl) ACO AIR V75 MGW V44 MRB V3 | | |
| Baltilliore (BWI) | EMI | 1100-0300 | |
| Boston (BOS) | (60–170 incl) V522 ERI V270 CFB V72
ALB V2 GDM GDM-STAR | 1100-0300 | |
| Buffalo (BUF) | (60–170 incl) V522 ERI V43 WELLA | 1100 000 | |
| Chicago Midway (MDW) | (60-170 incl) SKY VWV V126 CGT | 1100-0300 | |
| Chicago O'Hare (ORD) | (60–170 incl) V45 VWV V126 HALIE V340 | 4400 020 | |
| Columbus (CMH) | BEARZ
(60–170 incl) DJB DJB173 HERAK APE035
APE | 1100-030 | |
| Dayton (DAY) | (60-170 incl) OBRLN-DP ROD | | |
| Detroit/Wayne (DTW) | (60–170 incl) DJB DJB314 GEMNI GEMNI–
STAR | | |
| Detroit Satellites: | | | |
| Ann Arbor (ARB) | | | |
| Pontiac (PTK) | | | |
| Willow Run (YIP) | | | |
| Windsor (YQG) | | | |
| Young (DET) | (60–170 incl) DJB LLEEO–STAR | 1100-030 | |
| Indianapolis (IND) | (60–170 incl) OBRLN-DP MIE MIE244 CLANG
CLANG-STAR | | |
| Pittsburgh (PIT) | (60-170 incl) ACO V337 CUTTA | 1100-030 | |
| Rochester (ROC) | (60-170 incl) V522 ERI V14 BUF V2 CLUNG | 1100-030 | |
| Washington Dulles (IAD) | (90–170 incl) ACO AIR V75 MGW V144 ESL V4
AML | 1100-030 | |
| | Or (00, 470 :) ACO AIR V7F MCW V44 MRR AMI | 1100 020 | |
| Washington Natl (DCA) | (90-170 incl) ACO AIR V75 MGW V44 MRB AML
(90-170 incl) ACO AIR V75 MGW V144 ESL V4 | 1100-0300 | |
| DOLLINADUO (ONNII) | AML | 1100-030 | |
| COLUMBUS (CMH) | (00 470 in all) (40 T)/T (/EATNL OTAD | 4400 000 | |
| Cleveland (CLE) | (60–170 incl) V43 TVT KEATN-STAR | 1100-030 | |
| Pittsburgh (PIT)
Toledo (TOL) | (60–170 incl) APE V12 CTW WISKE-STAR
V493 VWV | 1100-030
1100-030 | |
| DAYTON (DAY) | V433 VWV | 1100-030 | |
| Chicago Midway (MDW) | V55 V422 CGT | 1100-030 | |
| Chicago O'Hare (ORD) | V55 FWA V340 BEARZ | 1100-030 | |
| Cleveland (CLE) | DQN ZABER-STAR | 1100-030 | |
| Detroit Metro-Wayne Co (DTW) Detroit Satellites: | DQN MIZAR-STAR | 1100-030 | |
| Ann Arbor (ARB) | | | |
| Pontiac (PTK)Willow Run (YIP) | DQN CRUXX-STAR | | |
| Windsor (YQG) | - | | |
| Young (DET) | V275 KLINE VWV VWV064 LYNTN(90-170 incl) ZZV V144 ESL V4 AML | 1100-030 | |
| | Or (00, 470 :) 77) | 4400 000 | |
| Washington Natl (DCA) | (90-170 incl) ZZV V14 MGW V44 MRB AML
(90-170 incl) ZZV V144 ESL V4 AML | 1100-0300
1100-0300 | |
| DETROIT METRO AREA | (30-170 III0I) 224 VI44 E3L V4 AIVIL | 1100-030 | |
| (Detroit Metro-Wayne Co & Satellites) | (00 470 km) TV00D V440 DED V70 | 4400 00- | |
| Albany (ALB) | (60–170 incl) TYCOB V116 BFD V72
(60–170 incl) ERRTH-DP CXR YNG V6 SEG V170 | 1100-030 | |
| Boston (BOS) | MXE V184(60–170 incl) TYCOB V116 BFD V72 ALB V2 | 1100-030 | |
| | GDM | 1100-030 | |
| Buffalo (BUF) | (60-170 incl) TYCOB V90 DKK | 1100-030 | |
| Chicago Midway (MDW) | HARWL JXN V116 LEROY GSH CGTFWA-DP FWA KNOX-STAR | 1100-030 | |
| Chicago O'Hare (ORD) | or | | |
| | · · | | |

EC. 23 SEP 2010 to 18 NOV 2010

or

or

FWA-DP FWA WATSON (RNAV)-STAR.....

HARWL JXN V116 ELX V100 DEERE.....

Effective

| | | T |
|----------------------------------------|-----------------------------------------------------------|------------------------|
| T | 5 | Times |
| Terminals | Route | (UTC) |
| Cleveland (CLE) | GRR MKG V510 FAH BJB OBK
MAARS ACO319 HIMEZ HIMEZ-STAR | |
| Columbus (CMH) | CAVVS VWV FDY V279 GUNNE | 1100-0300 |
| Fort Wayne (FWA) | (60–170 incl, Props) HARWL JXN V221 | 1100-0300 |
| , | or | |
| | (60-170 incl, Jets) ANNTS DX0217 FWA071 | 1100-0300 |
| Indianapolis (IND) | HARWL JXN V221 MIE V14 CLANG-STAR | 1100-0300 |
| Milwaukee (MKE) | (60-170 incl) DUNKS V170 PMM V170 PETTY | 1100-0300 |
| Montreal (CYUL) | (60-170 incl) TYCOB V116 ERI V270 ELZ V501 | |
| | SYR MSS V203 FRANX FRANX-STAR | 1100-0300 |
| Pittsburgh (PIT) | (60–170 incl) ACO CUTTA–STAR | 1100-0300 |
| Rochester (ROC) | (60–170 incl) TYCOB YQG 098 SURLY DKK V14 | 1100 0200 |
| Syracuse (SYR) | BUF(60–170 incl) TYCOB V116 ERI V14 GEE V84 | 1100-0300
1100-0300 |
| Washington Natl (DCA) | (60–170 incl) ACO AIR V75 MGW V144 ESL V4 | 1100-0300 |
| Washington Nati (Do/l) | MANNE | 1100-0300 |
| Westchester Co (HPN) | (60–170 incl) TYCOB V116 ERI V270 V433 V157 | 1100 0000 |
| , | HAARP | 1100-0300 |
| | or | |
| | (60-170 incl, props less than 250 kts) TYCOB | |
| | V116 ERI V270 V433 V123 HAARP | 1100-0300 |
| FORT WAYNE (FWA) | | |
| Moline (MLI) | V144 BDF V156 MZV | 0000-2359 |
| Rockford (RFD) | V144 SMARS V128 | 0000-2359 |
| GREATER PEORIA RGNL (PIA) | DIA DIAGGO MOTIF IOT | |
| Chicago Midway (MDW) | PIA PIA 035 MOTIF JOT | |
| Chicago O'Hare (ORD)INDIANAPOLIS (IND) | PIA PIA035 V10 PLANO | |
| Cleveland Metro Area (CLE) (CGF) (BKL) | | |
| (LNN) (LPR) | (RNAV only/60-170 incl) DQN ZABER -STAR | |
| (LIVIV) (LFR) | or | |
| | (all others/60-170 incl) DQN MFD ZABER -STAR. | |
| Detroit Metro-Wayne Co (DTW) | FWA MIZAR-STAR | |
| | FWA CRUXX-STAR | |
| Detroit Satellites: | | |
| Ann Arbor (ARB) | | |
| Pontiac (PTK) | EMA OBLUVY OTAB | |
| Willow Run (YIP) | FWA CRUXX-STAR | |
| Windsor (YQG)
Young (DET) | V275 KLINE VWV VWV051 POOFE | |
| Evansville (EVV) | V305 | |
| Kansas City (MKC) | V50 SPI BQS-STAR | 0000-2359 |
| Pittsburgh (PIT) | (60-170 incl) V50 DQN V12 CTW WISKE-STAR | 1100-0300 |
| Springfield (SGF) | V11 PXV V190 | 0000-2359 |
| | or | |
| | TTH BIB V72 FAM V190 | 0000-2359 |
| Tulsa (TUL) | V11 PXV V190 SGF V14 | 0000-2359 |
| Wichita (ICT) | TTH BIB V72 ENL V234 EMP V12 | 0000-2359 |
| MILWAUKEE (MKE) | (00 470) | |
| Detroit Metro-Wayne Co (DTW) | (60-170 incl) SQUIB MKG POLAR-STAR | |
| Detroit Satellites: Ann Arbor (ARB) | | |
| Pontiac (PTK) | | |
| Willow Run (YIP) | | |
| Windsor (YQG) | | |
| Young (DET) | GRR LAN SPRTN-STAR | |
| | | |
| MOLINE (MLI) Fort Wayne (FWA) | V156 BDF V144 | 0000-2359 |
| South Bend (SBN) | V156 BDF V144 MAPPS V156 | 0000-2359 |
| ROCKFORD (RFD) | *100 DDI *177 NIALI O *100 | 0000-2339 |
| Fort Wayne (FWA) | V128 SMARS V144 | 0000-2359 |
| South Bend (SBN) | V128 SMARS V144 MAPPS V156 | 0000-2359 |
| | | |
| SOUTH BEND (SBN) | V156 MAPPS V144 BDF V156 MZV | 0000-2359 |
| Moline (MLI) | V130 WAPPS V144 BDF V130 WZV | 0000 2000 |

| Terminals | Route | Effective
Times
(UTC) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| SPRINGFIELD (SPI) | | |
| Chicago Midway (MDW) | PNT MOTIF-STAR | 0000-2359 |
| Chicago O'Hare (ORD)
Springfield (SGF) | PNT V227 PLANO
V50 UIN V63 SGF V14 | 0000-2359
0000-2359 |
| Tulsa (TUL) | V50 UIN V63 SGF V14 | 0000-2359 |
| TERRE HAUTE (HUF) | | |
| Kansas City (MKC) | V50 SPI BQS-STAR | 0000-2359 |
| Springfield (SGF) | V7 PXV V190 | 0000-2359 |
| Tulsa (TUL) | V7 PXV V190 SGF V14 | 0000–2359 |
| SPECIAL LOW | ALTITUDE DIRECTIONAL ROUTES | Effective
Times |
| | Route | (UTC) |
| Low Altitude IFR single-direction route for traf
Westbound | fic overflying ZOB ARTCC landing at ORD: JXN V116 ELX V100 DEERE | |
| Low Altitude IFR single–direction route for traf
Westbound | fic overflying ZOB ARTCC landing at ORD: OXI KNOX–STAR | |
| | HIGH ALTITUDE | |
| Terminals | Route | Effective
Times
(UTC) |
| AKRON (CAK) | | |
| Detroit/Wayne (DTW) | DJB DJB314 GEMNI GEMNI-STAR | |
| Atlanta (ATL) | (RNAV only) GUIDO J73 PXV BNA ERLIN
(RNAV)-STAR | |
| Baltimore (BWI) Birmingham (BHM) Boca Raton (BCT) Boston (BOS) Bristol/Johnson/Kingsport (TRI) Charleston (CHS) Charleston (CRW) Charlotte (CLT) Chattanooga (CHA) Cincinnati (CVG) Columbia (CAE) Columbus (CMH) Dallas/Fort Worth (DFW) Dayton (DAY) Denver (DEN) Detroit/Wayne (DTW) Evansville (EVV) | (all others) GUIDO J73 PXV BNA ROME-STAR GIJ J146 J34 DJB J162 MGW EMI-STAR EON DNB BNA VUZ (GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL J89 OTK PRRIE (RNAV)-STAR ELX CRL J554 JHW J82 ALB GDM GDM-STAR EON DNV VHP J24 FLM HWV EON DNV VHP J24 FLM HWV EON DNV VHP J24 FLM HVQ EON DNV VHP J24 FLM HVQ (RNAV only J24 FLM JOHNS (RNAV)-STAR EON DNV (RNAV only EON DNV CEGRM (RNAV)-STAR Or (all others) EON DNV SHELBYVILLE-STAR EON DNV VHP J24 FLM GIJ GIJ092036 FWA J178 APE RBS STL RZC FSM BYP GIJ GIJ092036 FWA ROD DQN IOW DSM J10 LBF SAYGE-STAR Or PLL PLL275065 FOD J94 ONL J114 SNY LANDR-STAR PETTY MKG POLAR-STAR GUIDO GUIDO J73 SZW J43 PIE FORTL-STAR | |
| Greensboro (GSO) | GUIDO J73 SZW J43 PIE FORTL—STAR or EON DNV TTH SWAPP ATL J89 HITTR PIE FORTL—STAR or (GPS or DME/DME—IRU equipped) EON DNV TTH SWAPP ATL J89 OTK JINGL (RNAV)—STAR EON DNV VHP J24 FLM EON DNV VHP J24 FLM SOT SUG V185 UNMAN GIJ J146 J34 DJB J518 J152 HAR | |

Effective

| Route EON DNV EON DNV TTH SWAPP ATL AMG ALMA-STAR | Times
(UTC) |
|-----------------------------------------------------------------------------|----------------------|
| | |
| EON DNV TTH SWAPP ATL AMG ALMA-STAR | |
| | |
| ELX CRL J554 JHW J70 LVZ LENDY-STAR | |
| EON DNV VHP J24 FLM J43 VXV | |
| GIJ J146 MIP MIP-STAR | |
| or | |
| GUIDO J73 PXV WLDER-STAR GUIDO J73 SZW J43 PIE CYY-STAR | |
| (Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL SZW SSCOT | |
| | |
| | |
| | |
| | |
| PLL PLL275065 FOD J94 ONL J148 OAL MOD | |
| PLL PLL275065 FOD J94 LCU J158 MVA
EON DNV TTH BWG GQO ATL J89 OTK | 1500-0400 |
| | |
| GIJ J146 CXR EWC JST BUNTS-STAR | |
| MZV STJ J18 FTI J19 ZUN BUNTR-STAR
or | 1200-0400 |
| IOW J192 PWE J64 PUB ALS J102 | |
| GIJ J146 J34 DJB ACO V337 CUTTA | |
| GIJ J146 CXR EWC JST | |
| | |
| | |
| | |
| | 1500-0400 |
| PLL PLL275065 FOD J94 FMG HYP-STAR | 1000 0 100 |
| DBQ J94 LCU HYP-STAR | 1500-0400 |
| GUIDO J73 PXV J73 SZW CLAMP-STAR
GUIDO J73 PXV J73 SZW DARBS-STAR | |
| or (GPS or DME/DME-IRU equipped) GUIDO J73 PXV J73 SZW FOXX (RNAV)-STAR | |
| GIJ J146 PLAIN VWVGIJ J146 J34 SHAAR WZRRD-STAR | |
| Or
GII 1146 134 SHAAR ELDEE (RNAV)-STAR | |
| (all others) EON DNV TTH SWAPP ATL OTK WLACE | |
| or | |
| DREGS DUMGE SWAPP ATL J89 OTK WLACE | |
| or | |
| (GPS or DME/DME-IRU equipped) EON DNV TTH IIU J99 VXV J43 WLACE (RNAV)-STAR | |
| (all others) ORD EON DNV TTH SWAPP ATL OTK | |
| ELX CRL J554 JHW J82 WILET RKA292 RKA
SWEDE-STAR | |
| | |
| LEWKE GIJ EVOTE NELLS KEEHO JHW J82
LEWKE GIJ J146 FJC | |
| | |
| | |
| | |
| | RBS FAM ARG GQE-STAR |

Atlanta (ATL) CMSKY CARYN CYBIL PXV J73 BNA ROME-STAR..

Route

Terminals

Effective Times (UTC)

| | or | |
|----------------------------------------------------|------------------------------------------------------|-----------|
| | CMSKY CARYN CYBIL PXV BNA ERLIN | |
| | (RNAV)-STAR | |
| Baltimore (BWI) | LEWKE GIJ OTENS ANEWA RIEKE DJB J34 AIR | |
| Birmingham (BHM) | KEMAN WESTMINSTER-STAR
CMSKY CARYN CYBIL PXV | |
| Bristol/Johnson/Kingsport (TRI) | EARND ELANR EMMLY ETAME EMEGE FLM | |
| Boca Raton (BCT) | (GPS or DME/DME-IRU equipped) GUIDO J73 | |
| 7000 Naton (BOT) | SZW PRRIE (RNAV)-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) EON DNV TTH | |
| | SWAPP ATL J89 OTK PRRIE (RNAV)-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) DENNT DARCY | |
| | DREGS DUMGE SWAPP ATL J89 OTK PRRIE | |
| Poston (BOS) | (RNAV)-STAR | |
| Boston (BOS) | LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB GARDNER-STAR | |
| Buffalo (BUF) | LEWKE GIJ EVOTE NELLS KEEHO DKK | |
| Charleston (CHS, CRW) | EARND ELANR EMMLY ETAME EMEGE FLM | |
| Charlotte (CLT) | EARND ELANR EMMLY ETAME FLM JOHNS | |
| • | (RNAV)-STAR | |
| Chattanooga (CHA) | DENNT DARCY DREGS DONVE BWG | |
| Cincinnati (CVG) | DENNT DARCY DNV CEGRM (RNAV)-STAR | |
| | Or
DENNIT DARGY DAW CHR. CTAR | |
| Claveland (CLE) | DENNT DARCY DNV SHB-STAR ELX CRL HIMEZ-STAR | |
| Cleveland (CLE) | or | |
| | LEWKE GIJ CRL HIMEZ-STAR | |
| Columbia (CAE) | EARND ELANR EMMLY ETAME EMEGE FLM | |
| Columbus (CMH) | LEWKE GIJ SEWTO FWA GUNNE-STAR | |
| Dallas/Fort Worth (DFW) | ACITO ADELL ARLYN STL RZC FSM | |
| | BONHAM-STAR | |
| Detroit Metro-Wayne Co (DTW) | GIJ LFD MIZAR-STAR | |
| Detroit Metro Area (ARB, PTK, YIP) | GIJ LFD CRUXX-STARGIJ LAN SPRTN-STAR | 1200-0400 |
| Detroit Metro Area (DET, CYQG)
Evansville (EVV) | DENNT DARCY DREGS DONVE | 1200-0400 |
| Fort Lauderdale (FLL) | DENNT DARCY DREGS DUMGE SWAPP ATL J89 | |
| (- ==, | OTK JINGL (RNAV)-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) DENNT DARCY | |
| | DREGS DUMGE SWAPP ATL J89 OTK JINGL | |
| | (RNAV)-STAR | |
| | Or | |
| | EON DNV TTH IIU J99 VXV J46 AMG TAY JINGL | |
| | (RNAV)–STAR
or | |
| | (GPS or DME/DME-IRU equipped) EON DNV TTH | |
| | SWAPP ATL J89 OTK JINGL (RNAV)-STAR | |
| Fort Myers (RSW) | CMSKY CARYN CYBIL PXV J73 SZW TYNEE | |
| | (RNAV)-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) GUIDO J73 PXV | |
| 0 | J73 SZW TYNEE (RNAV)-STAR | |
| Greensboro (GSO) | EARND ELANR EMMLY ETAME FLM PSK | |
| Greenville_Spartanhurg (GSD) | SMOKN-STAR
EARND ELANR EMMLY ERECO IIU | |
| Greenville-Spartanburg (GSP) | (GPS or DME/DME-IRU equipped) BACEN BLOKR | |
| 1003.011 (1100) | BEKKI FAM J137 LIT J180 SWB ROKIT | |
| | (RNAV)-STAR | |
| | or | |
| | | |
| | (Non-advanced NAV only) BACEN BLOKR BEKKI | |

Effective

| | | Effective
Times |
|------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------|
| erminals | Route | (UTC) |
| Houston (IAH) | (Turbojets-GPS or DME/DME-IRU equipped) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB TXMEX (RNAV)-STAR | (616) |
| | or
(Non-advanced NAV only) BACEN BLOKR BEKKI | |
| | FAM J137 LIT J180 SWB DAS-STAR | |
| Huntsville (HSV) | DENNT DARCY DREGS DONVE BWG
LEWKE GIJ EVOTE NELLS KEEHO JHW J70 STW | |
| Jacksonville (JAX) | LENDY DENNT DARCY DREGS DUMGE SWAPP AMG ALMA-STAR | |
| La Guardia (LGA) | LEWKE GIJ J146 ETG MILTON-STAR | |
| Memphis (MEM) | BACEN BLOKR BEKKI FAM ARG GILMORE-STAR or | |
| | CMSKY CARYN CYBIL PXV WLDER-STAR | |
| Miami (MIA) | DENNT DARCY DREGS DUMGE SWAPP ATL SZW J43 PIE CYPRESS-STAR or | |
| | (Turbojets–GPS or DME/DME–IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL SZW | |
| | J86 OTK SSCOT (RNAV)-STARor | |
| | (Turbojets-GPS or DME/DME-IRU equipped) GUIDO J73 SZW SSCOT (RNAV)-STAR or | |
| | (Turbojets-GPS or DME/DME-IRU equipped) EON
DNV TTH IIU J99 VXV J46 AMG TAY SSCOT
(RNAV)-STAR | |
| | or
EON DNV TTH SWAPP ATL SZW J43 PIE | |
| Minneapolis (MSP) | CYPRESS-STAR
BAE EAU-STAR
LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB | 1200-0400 |
| Nashville (BNA) | EEN
CMSKY CARYN CYBIL PXV CCT HEHAW-STAR
LEWKE GIJ EVOTE NELLS KEEHO J584 SLT FQM | |
| New Orleans (MSY) | WILLIAMSPORT-STAR | |
| Norfolk (ORF) | RYTHM-STAR EARND ELANR EMMLY ETAME EMEGE FLM J24 | |
| Orlando (MCO/ORL) | MOL TERKS-STAR DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PIGLT (RNAV)-STAR | |
| | or DENNT DARCY DREGS DUMGE SWAPP ATL J89 | |
| | OTK LEESE-STAR | 1100-0400 |
| Phoenix (PHX | MZV J18 FTI J19 ZUN EAGUL (RNAV)-STAR
or | 1200-0400 |
| | MZV LMN J64 HLC LAA J102 GUP EAGUL
(RNAV)-STAR | |
| Philadelphia (PHL)Pittsburgh (PIT) | LEWKE GIJ J146 CXR EWC JST BUNTS-STAR LEWKE GIJ OTENS ANEWA RIEKE DJB ACO CUTTA-STAR | |
| Providence (PVD) | LEWKE GIJ EVOTE NELLS KEEHO JHW J82 MEMMS J522 HNK TEDDY | |
| Raleigh/Durham (RDU) | EARND ELANR EMMLY ETAME EMEGE FLM BKW ROA SOUTH BOSTON-STAR | |
| Richmond (RIC) | EARND ELANR ETAME EMEGE FLM J24 FAK | |
| Rochester (ROC) | LEWKE GIJ EVOTE NELLS KEEHO DKK BUF CMSKY CARYN CYBIL PXV J73 SZW | |
| Sarasota/Bradenton (SRQ) | DARBS-STARCMSKY CARYN CYBIL PXV J73 SZW CLAMP-STAR | |
| Tampa (TPA) | CMSKY CARYN CYBIL PXV J73 SZW FOOXX (RNAV)-STAR | |

Route

CMSKY CARYN CYBIL PXV J73 SZW

Terminals

Effective Times (UTC)

| | CMSKY CARYN CYBIL PXV J73 SZW |
|--------------------------------------------------|-------------------------------------------------------------------------------|
| | DARBS-STAR |
| Teterboro (TEB) | LEWKE GIJ EVOTE NELLS KEEHO JHW J70 LVZ |
| T (TTN) | WILKES BARRE-STAR |
| Trenton (TTN) | LEWKE GIJ J146 CXR EWC JST BUNTS-STAR |
| Washington Dulles (IAD) | LEWKE GIJ OTENS ANEWA RIEKE DJB J34 AIR |
| | MGW MGW121 VERNI ESL ROYIL-STAR |
| | or |
| | (GPS or DME/DME-IRU equipped) LEWKE GIJ |
| | OTENS ANEWA RIEKE DJB J34 AIR MGW VERNI |
| | ESL SHNON (RNAV)-STAR |
| Washington Natl (DCA) | (GPS or DME/DME-IRU equipped) GIJ J146 J34 |
| | BUCKO ELDEE (RNAV)-STAR |
| | or |
| | LEWKE GIJ OTENS ANEWA RIEKE DJB J34 SHAAR |
| | WZRRD-STAR |
| | or |
| | (GPS or DME/DME-IRU equipped) LEWKE GIJ |
| | OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE |
| Wall Build Alban | (RNAV)-STAR |
| White Plains (HPN) | LEWKE GIJ EVOTE NELLS KEEHO JHW ITH DNY |
| W (BB) | VALRE-STAR |
| Windsor Locks (BDL) | LEWKE GIJ EVOTE NELLS KEEHO JHW J82 WILET |
| CHICAGO O'Hare (ORD) only | SWEDE-STAR |
| Akron (CAK) | MOBLE ADIME OTENS VWV MFD V8 DALTS |
| Albany (ALB) | EBAKE WISMO POSTS PADDE SVM DKK |
| Allentown (ABE) | MOBLE ADIME GERBS J146 MIP |
| Andrews AFB (ADW) | MOBLE ADIME OTENS ANEWA RIEKE DJB J34 |
| | SHAAR WZRRD-STAR |
| Atlanta (ATL) | CMSKY CARYN CYBIL PXV J73 BNA ROME-STAR |
| | or |
| | CMSKY CARYN CYBIL PXV BNA ERLIN |
| | (RNAV)-STAR |
| Atlantic City (ACY) | MOBLE ADIME GERBS J146 CXR EWC JST J152 |
| | HAR SIE |
| Baltimore (BWI) | MOBLE ADIME OTENS ANEWA RIEKE DJB J34 AIR |
| | KEMAN WESTMINSTER-STAR |
| Bedford (BED) | EBAKE WISMO POSTS PADDE SVM DKK ALB GDM |
| | V431 LOBBY |
| Birmingham (BHM) | CMSKY CARYN CYBIL PXV |
| Boca Raton (BCT) | (GPS or DME/DME-IRU equipped) GUIDO J73 |
| | SZW PRRIE (RNAV)-STAR |
| | or |
| | (GPS or DME/DME-IRU equipped) EON DNV TTH |
| | SWAPP ATL J89 PRRIE (RNAV)-STAR |
| | Or |
| | (GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PRRIE |
| | |
| Boston (BOS) | (RNAV)-STAR
EBAKE WISMO POSTS PADDE SVM DKK ALB |
| B08(011 (B03) | |
| Printal / Johnson / Kinganart (TDI) | GARDNER-STAR EARND ELANR EMMLY ETAME EMEGE FLM |
| Bristol/Johnson/Kingsport (TRI)
Buffalo (BUF) | DUFEE ELX HAAKK DOXXY SOSIC COHOW DKK |
| Burlington (BTV) | EBAKE WISMO POSTS PADDE SVM DKK SYR J29 |
| Burnington (BTV) | LAGGS |
| Charleston (CHS, CRW) | EARND ELANR EMMLY ETAME EMEGE FLM |
| Charlotte (CLT) | EARND ELANR EMMLY ETAME FLM JOHNS |
| | (RNAV)-STAR |
| Chattanooga (CHA) | DENNT DARCY DREGS DONVE BWG |
| Cincinnati (CVG) | DENNT DARCY DNV CEGRM (RNAV)-STAR |
| | or |
| | DENNT DARCY DNV SHELBYVILLE-STAR |
| Cleveland (CLE) | DUFEE ELX HIMEZ-STAR |
| Columbia (CAE) | EARND ELANR EMMLY ETAME EMEGE FLM |
| Columbus (CMH) | MOBLE ADIME SEWTO FWA GUNNE-STAR |
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EC. 23 SEP 2010 to 18 NOV 2010

| Terminals | Route | Effective
Times
(UTC) |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Dallas/Fort Worth (DFW) | ACITO ADELL ARLYN STL RZC FSM | |
| Denver (DEN) | BONHAM-STAR IOW DSM J10 LBF SAYGE-STARor | |
| Detroit Metro-Wayne Co (DTW)
Detroit Metro Area (DET, CYQG, PTK, YIP, | DBQ J94 ONL J114 SNY LANDR-STAR
PETTY MKG POLAR-STAR | |
| ARB) | PETTY GRR LAN SPRTN-STAR | 1200-0400 |
| Evansville (EVV)
Fort Lauderdale (FLL) | DENNT DARCY DREGS DONVE
DENNT DARCY DREGS DUMGE SWAPP ATL J89
OTK JINGL (RNAV)-STAR | |
| | or
DENNT DARCY DREGS SWAPP ATL J89 OTK JINGL
(RNAV)-STAR | |
| | (GPS or DME/DME-IRU equipped) EON DNV TTH | |
| Fort Myers (RSW) | IIU J99 VXV J46 AMU TAY JINGL (RNAV)-STAR
(GPS or DME/DME-IRU equipped) CMSKY CARYN
CYBIL PXV J73 SZW TYNEE (RNAV)-STAR | |
| | or
(GPS or DME/DME-IRU equipped) GUIDO J73 PXV | |
| Croonahara (CSO) | J73 SZW TYNEE (RNAV)-STAR | |
| Greensboro (GSO) | EARND ELANR EMMLY ETAME EMEGE FLM PSK SMOKN-STAR | |
| Greenville/Spartanburg (GSP) | EARND ELANR EMMLY ERECO IIU | |
| Harrisburg (MDT)
Houston (HOU) | MOBLE ADIME GERBS J146 CXR EWC HAR
(GPS or DME/DME-IRU equipped) BACEN BLOKR | |
| | BEKKI FAM J137 LIT J180 SWB ROKIT (RNAV)-STAR | |
| | (Non-advanced NAV only) BACEN BLOKR BEKKI
FAM J137 LIT J180 SWB DAS-STAR | |
| Houston (IAH) | (Turbojets-GPS or DME/DME-IRU equipped) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB TXMEX (RNAV)-STAR | |
| | or
(Non-advanced NAV only) BACEN BLOKR BEKKI | |
| | FAM J137 LIT J180 SWB DAS-STAR | |
| Huntsville (HSV)
Hyannis (HYA) | DENNT DARCY DREGS DONVE BWG EBAKE WISMO POSTS PADDE SVM DKK ALB ENE LFV | |
| Indianapolis (IND) | EARND ELANR EMMLY JAKKS | |
| Jacksonville (JAX) | DENNT DARCY DREGS DUMGE SWAPP ATL AMG ALMA-STAR | |
| Kennedy (JFK) | DUFEE ELX HAAKK DOXXY SOSIC JHW J70 LVZ
LENDY-STAR | |
| Knoxville (TYS) | EARND ELANR EMMLY ETAME EMEGE J43 VXV MOBLE ADIME GERBS J146 ETG MILTON-STAR | |
| La Guardia (LGA)
Louisville (LOU) | DENNT DARCY DREGS DUMGE CHERI | |
| Manchester (MHT) | EBAKE WISMO POSTS PADDE SVM DKK ALB EEN . BACEN BLOKR BEKKI FAM ARG GILMORE-STAR or | |
| | CMSKY CARYN CYBIL PXV WLDER-STAR | |
| Miami (MIA) | DENNT DARCY DREGS DUMGE SWAPP ATL SZW J43 PIE CYPRESS-STAR | |
| | (Turbojets-GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 SSCOT (RNAV)-STAR | |
| | or (Turbojets-GPS or DME/DME-IRU equipped) GUIDO J73 SZW SSCOT (RNAV)-STAR | |
| | or
(Turbojets-GPS or DME/DME-IRU equipped) EON
DNV TTH IUU J99 VXV J46 AMG TAY SSCOT
(RNAV)-STAR | |
| EC 23.9 | or
SEP 2010 to 18 NOV 2010 | |

Effective Times (UTC)

1200-0400

1100-0400

1200-0400

| rminals | Route
EON DNV TTH SWAPP ATL SZW J43 PIE |
|--------------------------------------------------------|---------------------------------------------------|
| | CYY-STAR |
| Minneapolis (MSP) | PLL PLL275065 ALO KASPR-STAR |
| Nashville (BNA) | CMSKY CARYN CYBIL PXV CCT HEHAW-STAR |
| Niagara Falls (IAG) | EBAKE WISMO POSTS PADDE SVM YXU |
| Newark (EWR) | DUFEE ELX HAAKK DOXXY SOSIC KEEHO J584 |
| | SLT FOM WILLIAMSPORT-STAR |
| New Orleans (MSY) | BACEN BLOKR BEKKI ENL J71 MEM J35 MCB |
| (| RYTHM-STAR |
| | or |
| | 0. |
| N | EARND ELANR EMMLY ERECO IIU RYANS |
| Norfolk (ORF) | EARND ELANR EMMLY ETAME EMEGE FLM J24 |
| | MOL TERKS-STAR |
| Newburgh (SWF) | DUFEE ELX HAAKK DOXXY SOSIC JHW ITH DNY |
| | V483 FILPS |
| New Haven (HVN) | DUFEE ELX HAAKK DOXXY SOSIC JHW RKA |
| | DENNA-STAR |
| Orlando (MCO/ORL) | DENNT DARCY DREGS DUMGE SWAPP ATL J89 |
| onanao (moo) onz) mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm | OTK PIGLT (RNAV)-STAR |
| | |
| | OF |
| | DENNT DARCY DREGS DUMGE SWAPP ATL |
| | LEESE-STAR |
| | or |
| | DENNT DARCY DREGS DUMGE SWAPP ATL J89 |
| | OTK LEESE-STAR |
| Philadelphia (PHL) | MOBLE ADIME GERBS J146 CXR EWC JST |
| , | BUNTS-STAR |
| Phoenix (PHX) | MZV STJ J18 GCK J96 ZUN EAGUL (RNAV)-STAR. |
| THOCHIX (FIIX) | or |
| | |
| | MZV LMN J64 HLC LAA J102 GUP EAGUL |
| | (RNAV)-STAR |
| Pittsburgh (PIT) | MOBLE ADIME OTENS ANEWA RIEKE DJB ACO |
| | CUTTA-STAR |
| Portland (PWM) | EBAKE WISMO POSTS PADDE SVM DKK ALB CON |
| | PARSO |
| | or |
| | MOBLE ADIME GERBS J146 CXR EWC JST SIE |
| Providence (PVD) | DUFEE ELX HAAKK DOXXY SOSIC JHW J82 |
| | MEMMS J522 HNK TEDDY-STAR |
| Raleigh/Durham (RDU) | EARND ELANR EMMLY ETAME EMEGE FLM BKW |
| raicign/ barnam (Rbo) | ROA SOUTH BOSTON-STAR |
| Distance of (DIO) | |
| Richmond (RIC) | EARND ELANR EMMLY ETAME EMEGE FLM J24 |
| | FAK |
| Roanoke (ROA) | EARND ELANR EMMLY ETAME EMEGE FLM |
| Rochester (ROC) | DUFEE ELX HAAKK DOXXY SOSIC COHOW DKK |
| | BUF |
| Saint Petersburg/Clearwater (PIE) | CMSKY CARYN CYBIL PXV J73 SZW |
| (, | DARBS-STAR |
| San Juan (TJSJ) | MOBLE ADIME GERBS J146 CXR EWC JST SIE |
| | |
| Sarasota/Bradenton (SRQ) | CMSKY CARYN CYBIL PXV J73 SZW CLAMP-STAR |
| Syracuse (SYR) | EBAKE WISMO POSTS PADDE SVM DKK |
| Tampa (TPA) | CMSKY CARYN CYBIL PXV J73 SZW |
| | DARBS-STAR |
| | or |
| | CMSKY CARYN CYBIL PXV J73 SZW FOOXX |
| | (RNAV)-STAR |
| Washington Dulles (IAD) | MOBLE ADIME OTENS ANEWA RIEKE DJB J34 AIR |
| | MGW MGW121 VERNI ESL ROYIL-STAR |
| | |
| | OF |
| | (GPS or DME/DME-IRU equipped) MOBLE ADIME |
| | OTENS ANEWA RIEKE DJB J34 AIR MGW VERNI |
| | ESL SHNON (RNAV)-STAR |
| Washington Natl (DCA) | MOBLE ADIME OTENS ANEWA RIEKE DJB J34 |
| • | BUCKO BUCKO-STAR |
| | or |
| | |

Effective Times

| B | Time |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| | (UTC |
| SHAAR WZRRD-STAR | |
| or | |
| OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE | |
| DUFEE ELX HAAKK DOXXY SOSIC JHW ITH DNY | |
| DUFEE ELX HAAKK DOXXY SOSIC JHW J106 LVZ | |
| SWEDE-STAR | |
| | |
| | |
| | |
| (RNAV only) CHCLL-DP BWG ERLIN (RNAV)-STAR. or | |
| (all others) BLUEGRASS-DP BWG ROME-STAR | |
| (above FL220-GPS or DME/DME-IRU equipped) | |
| GIPLE (RNAV)-DP YRK HVQ J8 CSN RAVNN
(RNAV)-STAR | |
| or | |
| (above FL220-all others) RHOMM-DP YPK HVQ J8 CSN OTT-STAR | |
| or | |
| (above FL230–GPS or DME/DME-IRU equipped) | |
| GIPLE (RNAV)-DP HVQ J8 CSN RAVNN
(RNAV)-STAR | |
| or | |
| (above FL230-all others) RHOMM-DP HVQ J8 CSN NOTTINGHAM-STAR | |
| (RNAV only) SILKS TRFWA LVT SYI VUZ | |
| (all others) BLUEGRASS-DP TRFWA LVT SYI VUZ | |
| (GPS or DME/DME-IRU equipped) KENLN-DP | |
| TRFWA NOTWO WALET HITTR LATHY PRRIE (RNAV)-STAR | |
| or | |
| (GPS or DME/DME-IRU equipped) KENLN-DP | |
| HYK VXV J43 ATL J89 OTK PRRIE (RNAV)-STAR. | |
| (RNAV only) ROCKT (RNAV)-DP AHTIY PSB HNK | |
| | |
| ROYKO (RNAV)—STAR | |
| or | |
| * * * * * * * * * * * * * * * * * * * * | |
| | |
| | |
| | |
| (RNAV only) CHCLL IIU PXV J131 LIT BYP | |
| (all others) BLUEGRASS-DP IIU PXV J131 | |
| | |
| TRFWA NOTWO OTK JINGL (RNAV)-STAR | |
| or
(all others) BLUEGRASS-DP HYK VXV J43 ATL J89 | |
| HITTR J75 FORTL-STAR | |
| (Turbojets-GPS or DME/DME-IRU equipped) | |
| KENLN (RNAV)-DP HYK VXV J43 SZW TYNEE | |
| or | |
| (all others-Turbojets) BLUEGRASS-DP HYK VXV | |
| | OF (GPS OR DME/DME-IRU equipped) MOBLE ADIME OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE (RNAV)—STAR |

| 'erminals | Poute | Effective
Times |
|--------------------|-------------------------------------------------------------------------------|--------------------|
| Fort Myers (RSW) | (GPS or DME/DME-IRU equipped) KENLN | (UTC) |
| | (RNAV)-DP HYK VXV J43 SZW TYNEE
(RNAV)-STAR | 1100-0300 |
| | or
(all others) BLUEGRASS-DP HYK VXV J43 SZW | |
| Harrisburg (MDT) | PIE JOSFF-STAR(RNAV)-DP AHTIY JST HAR | 1100-0300 |
| Houston (HOU) | (GPS or DME/DME–IRU equipped) CHCLL | |
| | (RNAV)-DP BWG J6 LIT J180 SWB ROKIT | |
| | (RNAV)–STARor | |
| | (Non-advanced NAV only) BLUEGRASS-DP BWG | |
| Houston (IAH) | J6 LIT J180 SWB DAS-STAR(Turbojets-GPS or DME/DME-IRU equipped) LIT | |
| | J180 SWB TXMEX (RNAV)-STAR | |
| | or
(Non-advanced NAV only) LIT J180 SWB | |
| | DAS-STAR | |
| Jackson (JAN) | (RNAV only) SILKS TRFWA LVT SYI VUZ JAN | |
| | (all others) BLUEGRASS-DP TRFWA LVT SYI VUZ | |
| Lo Cuardia (LGA) | JAN | |
| La Guardia (LGA) | (RNAV only) ROCKT (RNAV)-DP AHTIY PSB MILTON-STAR | 1000-1800 |
| Manchester (MHT) | (RNAV only) ROCKT (RNAV)-DP AHTIY PSB ALB | |
| Marco Island (MKY) | (RNAV only) KENLN (RNAV)-DP HYK VXV J43 SZW | |
| , | PIKKR (RNAV)-STAR | |
| | or
(all others) BLUEGRASS-DP HYK VXV J43 SZW | |
| | PIKKR (RNAV)-STAR | |
| Miami (MIA) | (Turbojets-GPS or DME/DME-IRU equipped) | |
| | SILKS-DP TRFWA NOTWO SZW SSCOT
(RNAV)-STAR | |
| | or | |
| | (all others) BLUEGRASS-DP HYK VXV J43 ATL SZW J43 PIE CYY-STAR | |
| Mobile (MOB) | (RNAV only) SILKS (RNAV)-DP TRFWA LVT SYI | |
| | VUZ SJI | |
| | or
(all others) BLUEGRASS-DP TRFWA LVT SYI | |
| | VUZ SJI | |
| Naples (APF) | (GPS required) BLUEGRASS-DP HYK VXV J43 SZW PIKKR (RNAV)-STAR | |
| Newark (EWR) | (RNAV only) BNGLE (RNAV)-DP DJB J29 J584 SLT | |
| | WILLIAMSPORT-STAR | |
| | or
(all others) CVG033 RIKLE DJB J29 J584 SLT | |
| | FQM-STAR | |
| Newburg (SWF) | (RNAV only) ROCKT (RNAV)–DP AHTIY PSB J49 HNK DNY V483 FILPS | |
| New Orleans (MSY) | (RNAV only) SILKS (RNAV)–DP TRFWA LVT SYI VUZ | |
| | J22 MEI RYTHM-STAR | |
| | or
(all others) BLUEGRASS-DP TRFWA LVT SYI VUZ | |
| | J22 MEI RYTHM-STAR | |
| Orlando (MCO) | (GPS or DME/DME-IRU euipped) KENLN
(RNAV)-DP HYK VXV J99 IRQ J85 AMG BUGGZ | |
| | (RNAV)-STAR | 1100-0400 |
| | or
(all others) BLUEGRASS-DP HYK VXV J99 IRQ J85 | |
| | AMG LEESE-STAR | 1100-0300 |
| Orlando (ORL) | (GPS or DME/DME-IRU equipped) KENLN | |
| | (RNAV)-DP HYK VXV J99 IRQ J85 AMG SHEMP
MTATA PIGLT (RNAV)-STAR | 1100_0400 |
| | or | 1100-0400 |

| PK | EFERRED IFR ROUTES | 3 |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------|
| Towningle | Pauta | Effective
Times |
| Terminals | Route
(all others) BLUEGRASS-DP HYK VXV J99 IRQ J85 | (UTC) |
| Philadelphia (PHL) | AMG LEESE-STAR
(RNAV only) ROCKT (RNAV)-DP AHTIY JST BOJID
(RNAV)-STAR | 1100-0300 |
| Phoenix (PHX) | (Turbojets-all others) BLUEGRASS-DP IIU PXV
J78 IRW J74 CNX ZUN BUNTR-STAR | |
| | (Turbojets–all others) BLUEGRASS–DP IIU PXV
J78 ZUN BUNTR–STAR | |
| | or (RNAV only-Turbojets) CHCLL (RNAV)-DP IIU PXV J78 ZUN EAGUL (RNAV)-STAR or | |
| | (RNAV only–Turbojets) CHCLL (RNAV)–DP IIU PXV
J78 IRW J74 CNX ZUN EAGUL (RNAV)–STAR | |
| Portland (PWM) | (RNAV only) ROCKT (RNAV)-DP AHTIY PSB J49 ALB ENE | |
| Providence (PVD) | (RNAV only) ROCKT (RNAV)-DP AHTIY PSB J49 HNK TEDDY-STAR | |
| Sarasota/Bradenton (SRQ) | (RNAV only) KENLIN (RNAV)-DP HYK VXV J43 SZW CLAMP-STAR | |
| | (all others) BLUEGRASS-DP HYK VXV J43 SZW CLAMP-STAR | |
| Tampa (TPA) | (GPS or DME/DME-IRU equipped) KENLN
(RNAV)-DP HYK VXV J43 SZW FOXXX
(RNAV)-STAR | |
| | or
(all others) BLUEGRASS-DP HYK VXV J43 SZW
DARBS-STAR | |
| Washington (DCA) | (RNAV only) RHOMM-DP HVQ ELDEE
(RNAV)-STAR | |
| Washington (IAD) | (all others) GIPLE (RNAV)-DP HVQ WZRRD-STAR
(RNAV only) GIPLE (RNAV)-DP HVQ SHNON
(RNAV)-STAR | |
| West Palm Beach (PBI) | or (all others) RHOMM-DP HVQ ROYIL-STAR(GPS or DME/DME-IRU equipped) SILKS (RNAV)-DP TRFWA NOTWO OTK WLACE (RNAV)-STAR | |
| | or (GPS or DME/DME-IRU equipped) KENLN (RNAV)-DP HYK VXV J43 ATL J89 OTK WLACE (RNAV)-STAR | |
| Wilkes Barre/Scranton (AVP)
Windsor Locks (BDL) | (RNAV only) ROCKT (RNAV)-DP AHTIY PSB LVZ
(RNAV only) ROCKT (RNAV)-DP AHTIY RKA SWEDE | |
| From LUNKEN (LUK) only: | SWEDE-STAR | |
| Albany (ALB) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB | |
| Boston (BOS) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB HNK ALB GDM GARDNER-STAR | |
| La Guardia (LGA) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB MILTON-STAR | 1000–1800 |
| Manchester (MHT) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB ALB EEN | |
| Newburgh (SWF) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE | |
| Philadelphia (PHL) | AHTIY PSB J49 HNK DNV V483 FILPS(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE | |
| Providence (PVD) | AHTIY JST BUNTS-STAR(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE | |
| Portland (PWM) | AHTIY PSB J49 HNK TEDDY-STAR
(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE
AHTIY PSB J49 ALB ENE | |
| Wilkes Barre/Scranton (AVP) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB LVZ | |

Route

Terminals

| Terminals | Route |
|---------------------------------|----------------------------------------------|
| Windsor Locks (BDL) | (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE |
| | AHTIY PSB RKA SWEDE SWEDE-STAR |
| CLEVELAND METRO (CLE, CGF, BKL, | |
| LNN, LPR) | |
| | (DNAV |
| Atlanta (ATL) | (RNAV only) DJB DJB173 HERAK APE035 APE |
| | J186 SOT ODF FLCON (RNAV)-STAR |
| | or |
| | (all others) DJB DJB173 HERAK APE035 APE |
| | J186 SOT ODF WHINZ-STAR |
| Battle Creek (BTL) | AMRST-DP VWV |
| | |
| Birmingham (BHM) | DJB DJB173 HERAK APE035 APE J186 BULEY |
| Boca Raton (BCT) | (GPS or DME/DME-IRU equipped) DJB DJB173 |
| | HERAK APE035 APE J83 SPA J85 TAY PRRIE |
| | (RNAV)-STAR |
| Charleston (CHS) | DJB DJB173 HERAK APE035 APE J186 BULEY |
| Charleston (CRW) | DJB DJB173 HERAK APE035 APE |
| Charlotte (CLT) | DJB DJB173 HERAK APE035 APE HVQ HMV |
| Ondriotto (OE1) | |
| 0.1 | JOHNS (RNAV)-STAR |
| Chicago Midway (MDW) | AMRST-DP VWV GSH GSH-STAR |
| Chicago O'Hare (ORD) | AMRST-DP VWV ZANLA WATSON (RNAV)-STAR |
| | or |
| | AMRST-DP VWV OXI KNOX-STAR |
| Chicago Rockford (RFD) | ALPHE-DP ALPHE J70 PMM |
| Cincinnati (CVG) | (RNAV only) DJB HERAK APE TIGRR (RNAV)-STAR. |
| | or |
| | (all others) DJB DJB173 HERAK APE035 APE |
| | , |
| | CINCE-STAR |
| Dallas/Fort Worth (DFW) | OBRLN-DP RID RID234/40 PXV LIT |
| | BONHAM-STAR |
| Denver (DEN) | AMRST-DP VWV GSH |
| Elkhart (EKM) | AMRST-DP VWV GSH |
| Fort Lauderdale (FLL) | DJB DJB173 HERAK APE035 APE J83 SPA J85 |
| (- ==/ | TAY J75 HITTR PIE FORTL-STAR |
| | |
| | or |
| | (GPS or DME/DME-IRU equipped) DJB DJB173 |
| | HERAK APE035 APE J83 SPA J85 TAY J75 |
| | JINGL (RNAV)-STAR |
| Fort Myers (FMY) | DJB DJB200 APE021 APE J186 J91 VXV J43 SZW |
| , | TYNEE (RNAV)-STAR |
| Fort Myoro (DSW) | |
| Fort Myers (RSW) | (GPS OR DME/DME-IRU equipped) DJB DJB173 |
| | HERAK APE035 APE J186 J91 VXV J43 SZW |
| | TYNEE (RNAV)-STAR |
| Fort Wayne (FWA) | OBRLN-DP FWA |
| Grand Rapids (GRR) | (RNAV only) ALPHE-DP ALPHE |
| Greensboro (GSO) | DJB DJB173 HERAK APE035 APE J186 BULEY |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) OBRLN-DP RID |
| nouston (noo) | RID234/40 PXV LIT J180 SWB ROKIT |
| | |
| | (RNAV)-STAR |
| | or |
| | (Non-advanced NAV only) OBRLN-DP RID |
| | RID234/40 PXV LIT J180 SWB DAS-STAR |
| Houston (IAH) | (Non-advanced NAV only) OBRLN-DP RID |
| | RID234/40 PXV LIT J80 SWB DAS-STAR |
| | or |
| | |
| | (Turbojets-GPS or DME/DME-IRU equipped) |
| | OBRLN-DP RID234/40 PXV LIT J180 SWB |
| | TXMEX (RNAV)-STAR |
| Jacksonville (JAX) | DJB DJB173 HERAK APE035 APE J83 SPA J85 |
| , , | AMG ALM-STAR |
| Kalamazoo /Pattle Crook (AZO) | |
| Kalamazoo/Battle Creek (AZO) | AMRST-DP VWV |
| Kansas City (MCI) | OBLRN-DP VHP J80 SPI BRAYMER-STAR |
| Kennedy (JFK) | FAILS V522 ERI JHW J70 LVZ LENDY-STAR |
| La Guardia (LGA) | V522 FAILS V188 JFN ETG MIP-STAR |
| Knoxville (TYS) | DJB DJB173 HERAK APE035 APE J186 BULEY |
| Las Vegas (LAS) | OBRLN-DP VHP STL |
| S , , | ** |

or

| PF | REFERRED IFR ROUTES | 36 |
|---------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------|
| Terminals | Route | Effective
Times
(UTC) |
| | AMRST-DP VWV GSH | , , , |
| Lewisburg (LWB) | DJB DJB173 HERAK APE035 APE | |
| Lexington (LEX) | OBRLN-DP ROD CVG CLEGG-STAR | |
| Little Rock (LIT) | OBLRN-DP RID RID234/40 PXV | |
| Los Angeles (LAX) | AMRST-DP VWV GSH | |
| Louisville (SDF) | OBRLN-DP ROD CVG REDSTONE-STAR | |
| Minneapolis (MSP) | (RNAV only) ALPHE-DP ALPHE J70 PMM BAE
EAU-STAR | |
| | Or | |
| Madison (MSN) | AMRST-DP CRL J34 BAE EAU-STAR | |
| Marco Island (MKY) | (RNAV only) ALPHE-DP ALPHE J70 PMM
DJB DJB200 APE021 APE J186 J91 VXV J43 SZW
PIKKR (RNAV)-STAR | |
| | or | |
| | DJB DJB200 APE021 APE J186 J91 ATL J89 J75 TEPEE ZEILR-STAR | |
| Memphis (MEM) | OBRLN-DP RID RID234/40 PXV WLDER-STAR | |
| Miami (MIA) | DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY J75 HITTR PIE CYPRESS-STAR | |
| | or
(/E/G/R/J/L/Q only) DJB DJB173 HERAK | |
| | APE035 APE J83 SPA J85 TAY J75 RSW DEEDS | |
| Milwaukoo (MKE) | (RNAV)-STAR | |
| Milwaukee (MKE) | AMRST-DP CRL CRL316/75 MKG V2 SUDDS
DJB DJB173 HERAK APE035 APE | |
| Naples (APF) | DJB DJB200 APE021 APE J186 J91 VXV J43 SZW | |
| Nechville (DNA) | PIKKR (RNAV)-STAR | |
| Nashville (BNA)
Newark (EWR) | OBRLN-DP IIU GUITR-STAR | |
| New Orleans (MSY) | V522 J584 SLT FQM-STAROBRLN-DP RID IIU MCB RYTHM-STAR | |
| Orlando (ORL) | (RADAR and DME required) DJB DJB200 APE021 | |
| Offarido (ONE) | APE J83 SPA CAE SAV OMN CORLL-STAR | 1100-0400 |
| Orlando (MCO) | DJB DJB173 HERAK APE035 APE J83 SPA CAE
SAV OMN BITHO-STAR | 1100-0400 |
| | or
(GPS or DME/DME-IRU equipped) DJB DJB173 | |
| | HERAK APE035 APE J83 SPA CAE SAV OMN | |
| | CWRLD (RNAV)-STAR | 1100-0400 |
| Palwaukee (PWK) | (RNAV only) ALPHE–DP ALPHE J70 PMM OBK | |
| Philadelphia (PHL) | ACO ACO145 J518 J152 HAR V210 BUNTS | |
| Phoenix (PHX) | OBRLN-DP VHP STLor | |
| | AMRST-DP VWV GSH | |
| Raleigh/Durham (RDU) | DJB DJB173 HERAK APEO35 APE HVQ BKW ROA
SOUTH- BOSTON-STAR | |
| San Antonio (SAT) | OBRLN-DP RID RID234/40 PXV J131 LIT J101 | |
| San Antonio (SAT) | LFK MARCS-STAR | |
| San Francisco (SF0) | AMRST-DP VWV GSH | |
| St. Louis (STL) | OBRLN-DP VHP VANDALIA-STAR | |
| Sarasota/Bradenton (SRQ) | DJB DJB200 APE021 APE J186 J91 VXV J43 SZW | |
| Seattle/Tacoma (SEA) | CLAMP-STAR(RNAV only) ALPHE-DP ALPHE J70 PMMor | |
| | (RNAV only) ALPHE-DP ALPHE J34 BAE | |
| South Bend (SBN) | AMRST-DP VWV GSH | |
| Tampa (TPA) | DJB DJB173 HERAK APE035 APE J186 J91 VXV J43 SZW DARBS-STAR | |
| | or (GPS or DME/DME-IRU equipped) DJB DJB173 | |
| | HERAK APE035 APE J186 J91 VXV J43 SZW FOXXX (RNAV)-STAR | |
| Toledo (TOL) | AMRST-DP VWV | |
| Toronto (CYYZ) | FAILS V443 DOGGS YXU V098 YWT YWT-STAR | |
| West Chicago/Dupage (DPA) | AMRST-DP VWV EON JOT | |
| West Palm Beach (PBI) | (GPS or DME/DME-IRU equipped) DJB DJB173 | |
| | HERAK APE035 APE J83 SPA J85 TAY WLACE or | |
| | | |
| FC 23.9 | SEP 2010 to 18 NOV 2010 | |
| 23.200 | | |

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Effective Times Terminals (UTC) Route (all others) DJB DJB173 HERAK APE035 APE J83 SPA TAY WLACE (RNAV)-STAR Wilmington (ILN) DJB DJB173 HERAK APE035 APE COLUMBUS (CMH) Dallas/Fort Worth (DFW) DON CVG PXV J131 LIT BYP..... Detroit/Wayne (DTW)..... DJB DJB314 GEMNI GEMNI-STAR (GPS or DME/DME-IRU equipped) LIT J180 SWB Houston (HOU) ROKIT (RNAV)-STAR (Non-advanced NAV only) LIT J180 SWB DAS-STAR..... Houston (IAH)..... (Turboiets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR (Non-advanced NAV only) LIT J180 SWB DAS-STAR..... La Guardia (LGA) HLG ETG MIP-STAR J83 SPA J85 TAY J75 HITTR PIE CYY-STAR...... Miami (MIA)..... (Turbojets-GPS or DME/DME-IRU equipped) J83 SPA J85 TAY SSCOT (RNAV)-STAR..... Newark (EWR) DJB J29 J584 SLT FOM-STAR..... Washington (IAD) APE APE100 AIR280 AIR J34 SHAAR ROYIL-STAR or (GPS or DME/DME-IRU equipped) APE APE100 AIR280 AIR MGW VERNI ESL SHNON (RNAV)-STAR..... Washington (DCA) APE APE100 AIR280 AIR J34 SHAAR WZRRD-STAR or APE APE100 AIR280 AIR J34 SHAAR ELDEE (RNAV)-STAR..... DAYTON (DAY) Atlanta (ATL) (RNAV only) IIU BWG ERLIN (RNAV)-STAR IIU BWG ROME-STAR..... Boca Raton (BCT)..... (GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 TAY PRRIE (RNAV)-STAR 1100-0300 Charlotte (CLT) CVG FLM JOHNS (RNAV)-STAR..... 0700-2300 Dallas/Fort Worth (DFW) J29 PXV J131 LIT BYP..... V47 CVG HYK VXV J43 ATL J89 HITTR PIE Fort Lauderdale (FLL) FORTL-STAR..... (GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J43 ATL J89 OTK JINGL (RNAV)-STAR...... Fort Myers (FMY)..... V47 CVG HYK VXV J43 SZW TYNEE (RNAV)-STAR. (GPS or DME/DME-IRU equipped) V47 CVG HYK Fort Myers (RSW) VXV J43 SZW TYNEE (RNAV)-STAR 1100-0300 Houston (HOU) GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR (Non-advanced NAV only) LIT J180 SWB DAS-STAR..... Houston (IAH)..... (Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR (Non-advanced NAV only) LIT J180 SWB DAS-STAR..... La Guardia (LGA) J29 J146 ETG MIP-STAR..... Marco Island (MKY) V47 CVG HYK VXV J43 SZW PIKKR (RNAV)-STAR.. V47 CVG HYK VXV J43 ATL SZW J43 PIE Miami (MIA)..... CYY-STAR..... (Turbojets-GPS or DME/DME-IUR equipped) V47 CVG HYK VXV J43 ATL SZW SSCOT (RNAV)-STAR.....

| 11 | VELENKED II K KOOTES | 300 |
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| | | Effective
Times |
| Terminals | Route | (UTC) |
| Naples (APF) | V47 CVG HYK VXV J43 SZW PIKKR (RNAV)-STAR | |
| Orlando Executive (ORL) | V47 CVG HYK VXV J99 IRQ J85 AMG
LEESE-STAR | 1100-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 AMG SHEMP MTATA PIGLT | |
| Orlanda Intl (MCC) | (RNAV)-STAR | 1100-0400 |
| Orlando Intl (MCO) | V47 CVG HYK VXV J99 IRQ J85 AMG
LEESE–STAR | 1100-0300 |
| | or | |
| | (GPS or DME/DME-IRU equipped) V47 CVG HYK | |
| 0.000 1.75 | VXV J99 IRQ J85 AMG BUGGZ (RNAV)-STAR | 1100-0400 |
| Sarasota/Bradenton (SRQ) | V47 CVG HYK VXV J43 SZW CLAMP-STAR | |
| Tampa (TPA) | V47 CVG HYK VXV J43 SZW DARBS-STAR
or | |
| | or
(GPS or DME/DME-IRU equipped) V47 CVG HYK | |
| | VXV J43 SZW FOXXX (RNAV)-STAR | |
| West Palm Beach (PBI) | (GPS or DME/DME-IRU equipped) V47 CVG HYK | |
| | VXV J99 IRQ J85 TAY WLACE | 1100-0300 |
| | or
V47 CVG HYK VXV J99 IRQ TAY WLACE | |
| | V47 CVG HYK VXV J99 IRQ TAY WLACE (RNAV)-STAR | 1100-0300 |
| DETROIT METRO AREA (DTW, DET, YQG, | . , | 0000 |
| PTK, YIP, ARB) | | |
| Albany (ALB) | MOONN-DP JHW | |
| Allentown (ABE) | ERRTH-DP ETG | |
| Atlanta (ATL) | RICHMOND-DP RID IIU BWG ROME-STAR
or | |
| | or
(RNAV only) RICHMOND-DP RID IIU BWG ERLIN | |
| | (RNAV)-STAR | |
| Atlantic City (ACY) | ERRTH-DP CXR EWC JST J152 HAR SIE | |
| Baltimore (BWI) | ACO AIR AIR111 KEMAN WESTMINSTER-STAR | |
| Bedford (BED) | MOONN-DP JHW J82 ALB | |
| Binghamton (BGM)
Birmingham (BHM) | MOONN-DP JHW
RICHMOND-DP RID IIU | |
| Boston (BOS) | MOONN-DP JHW J82 ALB GARDNER-STAR | |
| Buffalo (BUF) | (60-170 incl) MOONN-DP BROKK DKK | |
| Burlington (BTV) | MOONN-DP J29 JHW LAGGS | |
| Cancun (MMUN) | RICHMOND-DP RID IIU
ROSEWOOD-DP ROD FLM HMV | |
| Charleston (CHS) | ACO AIR HVQ | |
| | or | |
| | (Turboprops/Props-at or below FL210) SCORR | |
| Charlette (CLT) | CHOOT APE HVQ | |
| Charlotte (CLT) | ROSEWOOD-DP ROD FLM HMV JOHNS (RNAV)-STAR | |
| Chicago MIdway (MDW) | (RNAV)-STARJXN V116 LEROY GSH GSH-STAR | |
| Cincinnati (CVG) | FDY DEBAR-STAR | |
| Cleveland Metro Area (CLE) (CGF) (BKL) | | |
| (LNN) (LPR) | MAARS HIMEZ HIMEZ-STAR | |
| Columbus (CMH) | SCOOR CHOOT YOGGI GUNNE-STAR
FORT WAYNE-DP FWA RBS STL RZC FSM | |
| Dallas/Fort Worth (DFW) | FORT WAYNE-DP FWA RBS STL RZC FSM BONHAM-STAR | |
| Denver (DEN) | DUNKS J70 PMM J94 ONL J114 SNY | |
| | LANDR-STAR | 1100-0359 |
| Elmira (ELM) | MOONN-DP JHW | - |
| Ft. Lauderdale (FLL) | ROSEWOOD-DP ROD FLM VXV CRG OMN | |
| | GISSH-STAR | |
| | or
ROSEWOOD-DP ROD FLM VXV CRG OMN FISEL | |
| | (RNAV)-STAR | |
| Fort Myers (FMY & RSW) | (Turbojets-GPS or DME/DME-IRU equipped) | |
| | ROSEWOOD-DP ROD FLM VXV AMG SHFTY | |
| 0 | (RNAV)-STAR | |
| Greensboro (GSD) | AIR EKN ROA HENBY | |
| Greer (GSP) | ROSEWOOD-DP ROD FLM SOT V185 UNMAN | |
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| EC. 23 S | SEP 2010 to 18 NOV 2010 | |
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| | | Effective |
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| | P | Times |
| erminals | Route | (UTC) |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) RID-DP RID PXV J131 LIT J180 SWB ROKIT (RNAV)-STAR or | |
| | (Non-advanced NAV only) RID-DP RID PXV J131 LIT J180 SWB DAS-STAR | |
| Houston (IAH) | CAVVS VWV ROD J29 PXV J131 LIT J180 CLUBS
DAS-STAR | |
| | or (Turbojets-GPS or DME/DME-IRU equipped) RID-DP RID PXV J131 LIT J180 SWB TXMEX (RNAV)-STAR | |
| | or (Non-advanced NAV only) RID-DP RID PXV J131 LIT J180 SWB DAS-STAR | |
| Huntsville (HSV) | RICHMOND-DP RID IIU J39 BNA | |
| Indianapolis (IND) | ANNTS DXO217 FWA071 FWA MIE V14 CLANG-STAR | |
| Jacksonville (JAX) | ROSEWOOD-DP ROD FLM VXV AMG ALMA-STAR | |
| Kennedy (JFK) | MOONN-DP JHW J70 LVZ LENDY-STAR | |
| La Guardia (LGA) | ERRTH-DP ETG ETG MILTON-STAR | |
| Lexington (LEX) | ROSEWOOD-DP ROD CVG CLEGG-STAR | 1100 00 |
| Los Angeles (LAX) | DUNKS J70 PMM OBK IOW J60 HEC J64
ROSEWOOD-DP ROD CVG REDSTONE-STAR | 1100-030 |
| Louisville (SDF) | MOONN-DP JHW J82 ALB EEN | |
| Memphis (MEM) | RICHMOND-DP CAVVS VWV ROD PXV WLDER-STAR | |
| Miami (MIA) | (RNAV only) ROSEWOOD-DP ROD FLM VXV CRG OMN HILEY (RNAV)-STAR | |
| | or
ROSEWOOD-DP ROD FLM VXV CRG OMN | |
| Minneapolis (MSP) | ANNEY-STAR
LAYNE DX0006 YQG341 J38 GRB EAU-STAR | |
| Montreal (CYUL) | TYCOB YQG098 J554 JHW J29 SYR ART ART040 J594 MSS FRANX FRANX-STAR | 1100-030 |
| Myrtle Beach (MYR) | ACO AIR EKN RDU | 1100 00 |
| Nashville (BNA) | RICHMOND-DP RID IIU GUITR-STAR | |
| Newark (EWR) | ERRTH SLT FQM-STAR | |
| New Orleans (MSY) | RICHMOND-DP RID IIU J39 BNA MEI
RYTHM-STAR | |
| Niagara Falls (IAG) | MOONN-DP BROKK DKK | |
| Norfolk (ORF) | ACO AIR MOL TERKS-STAR | |
| Norwood (OWD) | MOONN-DP JHW J82 ALB GDM
CAVVS VWV ROD J43 VXV J99 IRQ J85 AMG
LEESE-STAR | |
| | or
(GPS or DME/DME-IRU equipped) | |
| | ROSEWOOD-DP ROD J43 VXV J99 IRQ J85 AMG | 1100-040 |
| Orlando Intl (MCO) | SHEMP MTATA PIGLT (RNAV)—STAR
ROSEWOOD—DP ROD FLM VXV AMG LEESE—STAR .
or | 1100-040 |
| | (GPS or DME/DME-IRU equipped) ROSEWOOD-DP ROD FLM VXV AMG BUGGZ | |
| | (RNAV)-STAR | 1100-040 |
| Philadelphia (PHL) | ERRTH-DP CXR EWC JST BUNTS-STAR | |
| Pittsburgh (PIT) | ACO CUTTA-STAR MOONN-DP JHW J82 ALB CAM CON CONO61 | |
| Pottstown (PTW) | NEETS ERRTH-SID CXR EWC JST | |
| Providence (PVD) | MOONN-DP JHW J82 MEMMS J522 HNK TEDDY-STAR | |
| Raleigh/Durham (RDU) | ACO AIR EKN ROA SOUTH BOSTON-STARERRTH-DP ETG | |
| Richmond (RIC) | ACO AIR MOL FAK | |
| Roanoke (ROA) | ACO AIR EKN ROA | |
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| CH Rochester (ROC) | Route (UTC) OPTOPS/Props/at or below 230) SCORR OOT APE ROA |
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| CH Rochester (ROC) | OOT APE ROA NN-DP BROKK DKK WAYNE-DP FWA RBS STL RZC MLC ACT IRCS-STAR MOND-DP RID RID234/40 PXV J131 TXK I TNV IDU MARCS-STAR (S J70 PMM J94 FMG ILA PYE WOOD-DP RID PLM VXV AMG TAY LAL MOND-DP RID RID234/40 PXV S DX0217 FWA071 FWA RBS VLA-STAR NN-DP JHW WOOD-DP ROD FLM VXV AMG TAY ARD-STAR or OT DME/DME-IRU equipped) ROD-DP ROD M VXV AMG TAY DADES (RNAV)-STAR NN-DP JHW J70 LVZ WILKES BARRE-STAR N DX0020 V450 YWT V216 H-DP CXR EWC JST BUNTS-STAR SIKW ROYIL-STAR OF DIVINIONAL STAR OF DIVINIONAL STAR OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY OF DME/DME-IRU equipped) |
| Rochester (ROC) | NN-DP BROKK DKK. WAYNE-DP FWA RBS STL RZC MLC ACT IRCS-STAR. MOND-DP RID RID234/40 PXV J131 TXK I TNV IDU MARCS-STAR. 45 J70 PMM J94 FMG ILA PYE. EWOOD-DP ROD FLM VXV AMG TAY LAL MOND-DP RID RID234/40 PXV. IS DX0217 FWA071 FWA RBS VLA-STAR NN-DP JHW EWOOD-DP ROD FLM VXV AMG TAY ARD-STAR OF DME/DME-IRU equipped) ROD-DP ROD M VXV AMG TAY DADES (RNAV)-STAR NN-DP JHW J70 LVZ WILKES BARRE-STAR NN-DP JHW J70 LVZ WILKES BARRE-STAR NN-DP JRO VA50 YMT V216 IH-DP CXR EWC JST BUNTS-STAR SIGN SHNON (RNAV)-STAR OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY OF DME/DME-IRU equipped) |
| MA | MOND-DP RID RID234/40 PXV J131 TXK ITNV IDU MARCS-STAR KS J70 PMM J94 FMG ILA PYE WOOD-DP ROD FLM VXV AMG TAY LAL MOND-DP RID RID234/40 PXV S DX0217 FWA071 FWA RBS VLA-STAR NN-DP JHW WOOD-DP ROD FLM VXV AMG TAY ARD-STAR or OT DME/DME-IRU equipped) ROD-DP ROD M VXV AMG TAY DADES (RNAV)-STAR NN-DP JHW J70 LVZ WILKES BARRE-STAR N DX0020 V450 YWT V216 H-DP CXR EWC JST BUNTS-STAR SIKW ROYIL-STAR OT DME/DME-IRU equipped) ROD-DP ROD M VXV AMG TAY DADES (RNAV)-STAR N DX0020 V450 YWT V216 H-DP CXR EWC JST BUNTS-STAR SIKW SHNON (RNAV)-STAR OT DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY OT DME/DME-IRU equipped) OT DME/DME-IRU equipped) |
| San Francisco (SFO) | I TNV IDU MARCS-STAR |
| San Francisco (SFO) | I TNV IDU MARCS-STAR |
| San Francisco (SFO) DUNI Sarasota/Bradenton (SRQ) ROSI Shreveport (SHV) RICH St. Louis (STL) ANNI Syracuse (SYR) MOO Tampa (TPA) ROSI LZ (GPS FLI MOO Toronto (TEB) MOO Toronto (CYYZ) PISTI Trenton (TTN) ERRI Washington Dulles (IAD) J42 I V PXV I V PXV I Westhampton Beach (FOK) MOO West Palm Beach (PBI) (GPS RO TU Or ROSI (RI White Plains (HPN) MOO Wilkes-Barre (AVP) MOO | AS J70 PMM J94 FMG ILA PYE WOOD-DP ROD FLM VXV AMG TAY LAL S DX0217 FWA071 FWA RBS VLA-STAR NN-DP JHW WOOD-DP ROD FLM VXV AMG TAY ARD-STAR or DME/DME-IRU equipped) ROD-DP ROD W XXV AMG TAY DADES (RNAV)-STAR NN-DP JHW J70 LVZ WILKES BARRE-STAR N DX0020 V450 YWT V216 H-DP CXR EWC JST BUNTS-STAR SKW ROYIL-STAR OF DME/DME-IRU equipped) ROD-DP ROD W XXV AMG TAY DADES (RNAV)-STAR ND-DP JHW J70 LVZ WILKES BARRE-STAR ND-DP JHW J70 LVZ WILKES BARRE-STAR OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY OF DME/DME-IRU equipped) OF DME/DME-IRU equipped) |
| Shreveport (SHV) | MOND-DP RID RID234/40 PXV 'S DX0217 FWA071 FWA RBS VLA-STAR NN-DP JHW EWOOD-DP ROD FLM VXV AMG TAY ARD-STAR or or DME/DME-IRU equipped) ROD-DP ROD w VXV AMG TAY DADES (RNAV)-STAR NN-DP JHW J70 LVZ WILKES BARRE-STAR N DX0020 V450 YWT V216 H-DP CXR EWC JST BUNTS-STAR SISKW ROYIL-STAR OF DME/DME-IRU equipped) ROD-DP ROD W STAR OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY or DME/DME-IRU equipped) |
| St. Louis (STL) | IS DX0217 FWA071 FWA RBS VLA-STAR NN-DP JHW |
| Syracuse (SYR) | NN-DP JHW |
| Tampa (TPA) ROSI LZ. (GPS (GPS FLI Teterboro (TEB) M000 Toronto (CYYZ) PISTI Trenton (TTN) ERRI Washington Dulles (IAD) J42 I PXV I Washington Natl (DCA) (GPS BU Westhampton Beach (FOK) M000 West Palm Beach (PBI) (GPS R00 TU or R0SI White Plains (HPN) M000 Wilkes-Barre (AVP) M000 | EWOOD-DP ROD FLM VXV AMG TAY ARD-STAR |
| CGPS FLI | or DME/DME-IRU equipped) ROD-DP ROD M VXV AMG TAY DADES (RNAV)-STAR N DNOD2D YFO LYZ WILKES BARRE-STAR N DXO02D V450 YWT V216 H-DP CXR EWC JST BUNTS-STAR SIKW ROYIL-STAR OF STAR IU JS HVQ ROYIL-STAR IU JS HVQ ROYIL-STAR IU JS HVQ SHNON (RNAV)-STAR IU JS HVQ SHNON (RNAV)-STAR OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY or DME/DME-IRU equipped) |
| Teterboro (TEB) | W VXV AMG TAY DADES (RNAV)—STAR NN—DP JHW J70 LVZ WILKES BARRE—STAR H—DP CXR EWC JST BUNTS—STAR SKW ROYIL—STAR DISTRICT OF STAR STAR STAR STAR STAR STAR STAR STAR |
| Teterboro (TEB) | NN-DP JHW J70 LVZ WILKES BARRE-STAR N DX0020 V450 YWT V216 |
| Toronto (CYYZ) | N DX0020 V450 YWT V216 |
| Trenton (TTN) | H-DP CXR EWC JST BUNTS-STAR |
| Washington Dulles (IAD) J42 I J42 I PXV I PXV I PXV I Washington Natl (DCA) (GPS BU Westhampton Beach (FOK) MOO West Palm Beach (PBI) (GPS RO TU or ROSI White Plains (HPN) MOO Wilkes–Barre (AVP) MOO | BKW ROYIL-STAR |
| J42 PXV PXV | SKW SHNON (RNAV)—STAR |
| Washington Natl (DCA) (GPS Westhampton Beach (FOK) MOO West Palm Beach (PBI) (GPS TU or ROSI White Plains (HPN) MOO Wilkes–Barre (AVP) MOO | or IU J8 HVQ ROYIL-STAR IU J8 HVQ SHNON (RNAV)-STAR IU J8 HVQ SHNON (RNAV)-STAR Or DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY or DME/DME-IRU equipped) |
| PXV PXV | IU J8 HVQ ROYIL-STAR |
| Washington Natl (DCA) PXV I Westhampton Beach (FOK) MOO West Palm Beach (PBI) (GPS RO TU or ROSI White Plains (HPN) MOO Wilkes-Barre (AVP) MOO | IU J8 HVQ SHNON (RNAV)-STARor DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR |
| Washington Natl (DCA) (GPS BU BU Westhampton Beach (FOK) MOO West Palm Beach (PBI) (GPS RO TU or ROSI (RI White Plains (HPN) MOO Wilkes-Barre (AVP) MOO | or DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY or DME/DME-IRU equipped) |
| BU Westhampton Beach (FOK). MOO Moo GPS GP | CKO ELDEE (RNAV)-STAR
NN-DP JHW J70 STW LENDY
or DME/DME-IRU equipped) |
| Westhampton Beach (FOK). MOO West Palm Beach (PBI). (GPS RO TU or ROSI (RI White Plains (HPN). Wilkes-Barre (AVP). MOO | NN-DP JHW J70 STW LENDY
or DME/DME-IRU equipped) |
| West Palm Beach (PBI) (GPS RO TU or ROSI (RI White Plains (HPN) MOO Wilkes-Barre (AVP) MOO | or DME/DME-IRU equipped) |
| TU or ROSI White Plains (HPN) MOO Wilkes–Barre (AVP) MOO | CEMOOD DD DOD ELM VVV ODG OMNI |
| ROSI | SEWOOD-DP ROD FLM VXV CRG OMN
XXI-STAR |
| White Plains (HPN) M00 Wilkes-Barre (AVP) M00 | TWO CO CO TO THE WAY OF COMM FRIEND |
| White Plains (HPN) M00 Wilkes-Barre (AVP) M00 | EWOOD-DP ROD FLM VXV CRG OMN FRWAY NAV)-STAR |
| Wilkes-Barre (AVP) M00 | NN-DP JHW ITH DNY VALRE-STAR |
| Milmington (II C) EDDI | NN-DP JHW |
| | H-DP CXR EWC JST BUNTS-STAR |
| | NN-DP JHW J82 WILET SWEDE-STAR |
| Winston Salem (INT) AIR E ELKHART (EKM) | KN ROA HENBY |
| Cleveland Metro Area (CLE) (CGF) (BKL) | |
| | CRL HIMEZ-STAR |
| EVANSVILLE (EVV) | |
| (RI | G/R/J/L/Q only) HEVAN MZZ ROYKO
NAV)-STAR |
| | -advanced RNAV only) HEVAN MZZ |
| MZ | Z344/33 OXI KNOX-STAR |
| FLINT (FNT) | · · · · · · · · · · · · · · · · · · · |
| | V-only) VWV RID IIU BWG ERLIN
NAV)-STAR |
| VWV | RID IIU BWG ROME-STAR |
| FORT WAYNE (FWA) | DEBAR-STAR |
| | DEBAR-STAR |
| GRAND RAPIDS (GRR) Atlanta (ATL) IIU B | WG ROME-STAR |
| or | |
| | V only) IIU BWG ERLIN (RNAV)-STAR
DEBAR-STAR |
| | |

Route

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Terminals

Cleveland Metro (CLE) (CGF) (BKL) (LNN)

Effective Times (UTC)

| (LPR) | GRR HIMEZ-STAR | ļ |
|------------------------------------------------------|--------------------------------------------------------|-----------|
| INDIANAPOLIS (IND) | | ļ |
| Dallas/Fort Worth (DFW) | J24 STL RZC FSM BYP | P |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) LIT J180 SWB | ľ |
| | ROKIT (RNAV)-STAR
or | ļ |
| | (Non-advanced NAV only) LIT J180 SWB | , |
| | DAS-STAR | , |
| Houston (IAH) | (Turbojets-GPS or DME/DME-IRU equipped) LIT | , |
| | J180 SWB TXMEX (RNAV)-STAR | ļ |
| | or
(Non–advanced NAV only) LIT J180 SWB | , |
| | DAS-STAR | , |
| KALAMAZOO/BATTLE CREEK (AZO) | 5 | ľ |
| Cincinnati (CVG) | FWA DEBAR-STAR | ľ |
| Cleveland Metro Area (CLE, CGF, BKL, | | , |
| LNN, LPR) | LFD CRL HIMEZ-STAR | , |
| LANSING (LAN) | | , |
| Atlanta (ATL) | (RNAV only) VWV RID IIU BWG ERLIN | , |
| | (RNAV)-STAR | ľ |
| | OF | ļ |
| 21-1 | VWV RID IIU BWG ROME-STAR | ļ |
| Cincinnati (CVG)Cleveland Metro Area (CLE, CGF, BKL, | FWA DEBAR-STAR | ļ |
| LNN. LPR) | SVM HIMEZ-STAR | ļ |
| MADISON (MSN) | SVM HIMEZ-STAR | , |
| Cleveland Metro Area (CLE, CGF, BKL, | | ľ |
| LNN, LPR) | SQUIB GRR HIMEZ-STAR | ļ |
| MILWAUKEE (MKE) | SQUID GRR HINEZ-STAR | ŀ |
| Akron (CAK) | OBK SAMPL ADIME OTENS VWV MFD V8 DALTS | ŀ |
| Albany (ALB) | SQUIB MKG ECK YXU BUF | ŀ |
| Andrews AFB (ADW) | OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34 | ļ |
| • | SHAAR WZRRD-STAR | P |
| Baltimore (BWI) | OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34 | ŀ |
| • | AIR KEMAN WESTMINSTER-STAR | ŀ |
| Boca Raton | (GPS or DME/DME-IRU equipped) OBK J73 SZW | ĺ |
| | PRRIE (RNAV)-STAR | ŀ |
| Bedford (BED) | SQUIB MKG ECK YXU BUF ALB GDM V431 LOBBY | ļ |
| Boston (BOS) | SQUIB MKG ECK YXU BUF ALB GARDNER-STAR | ŀ |
| Buffalo (BUF) | SQUIB MKG ECK YXU | ŀ |
| Burlington (BTV) | SQUIB MKG ECK YXU BUF SYR J29 LAGGS | ŀ |
| Cleveland Metro Area (CLE) | SQUIB LAN SVM HIMEZ-STAR | ŀ |
| Detroit Metro Area (VIP) | BAE POLAR-STAR | ŀ |
| Detroit Metro Area (YIP)
Flint (FNT) | SQUIB LAN SPRTN-STARSQUIB | ŀ |
| Fort Lauderdale (FLL) | OBK J73 SZW JINGL (RNAV)-STAR | 1100-0300 |
| FOIL Laudeldale (I LL) | or | 1100-0000 |
| | (GPS or DME/DME-IRU equipped) OBK J73 SZW | |
| | JINGL (RNAV)-STAR | 1100-0300 |
| Fort Myers (FMY) | OBK J73 SZW TYNEE (RNAV)-STAR | 1100-0300 |
| Harrisburg (MDT) | OBK SAMPL ADIME GERBS J146 CXR EWC HAR | |
| Houston (HOU) | (GPS or DME/DME-IRU equipped) LIT J180 SWB | |
| | ROKIT (RNAV)-STAR | |
| | Or | |
| | (Non-advanced NAV only) LIT J180 SWB | |
| | DAS-STAR(Turboists, CDS or DME (DME IDLL oquipped) LIT | |
| Houston (IAH) | (Turbojets-GPS or DME/DME-IRU equipped) LIT | |
| | J180 SWB TXMEX (RNAV)-STAR
or | ĺ |
| | | |

| '' | KELEKKEN ILK KOOIE2 | , |
|--------------------------------|------------------------------------------------------------------|----------------|
| | | Effective |
| erminals | Route | Times
(UTC) |
| | (Non-advanced NAV only) LIT J180 SWB | • • |
| Hyannis (HYA) | DAS-STARSQUIB MKG ECK YXU BUF ENE LFA | |
| Jackson (JXN) | SQUIB | |
| Kansas City (MCI) | IRK BRAYMER-STAR | |
| Kansas City (MKC) | IRK BRAYMER-STAR | |
| Kennedy (JFK) | SQUIB MKG ECK J16 HANKK J522 HNK IGN KINGSTON-STAR | |
| La Guardia (LGA) | SQUIB MKG ECK YXU BUF GEE RKA HAARP-STAR. | |
| Lansing (LAN) | SQUIB | |
| Mansfield (MFD) | OBK SAMPL ADIME OTENS VWV
OBK J73 SZW J43 PIE CYY-STAR
or | 1100-0300 |
| | (Turbojets-GPS or DME/DME-IRU equipped) OBK | |
| | J73 SZW SSCOT (RNAV)-STAR | 1100-0300 |
| Montreal (CYUL) | SQUIB MKG ECK YYZ J594 MSS | |
| Morristown (MMU) | SQUIB MKG ECK J16 HANKK IGN WEARD V489 | |
| Nashville (BNA) | COATE OBK J73 PXV CCT HEHAW-STAR | |
| Newark (EWR) | SQUIB MKG ECK J16 HANKK J522 HNK | |
| | SHAFF-STAR | |
| Niagara Falls (IAG) | SQUIB MKG ECK YXU | |
| Orlando Executive (ORL) | OBK J84 DNV TTH BWG GQO ATL J89 OTK LEESE-STAR | |
| | or
(GPS or DME/DME-IRU equipped) OBK J84 DNV | |
| | TTH BWG GQO ATL J89 OTK PIGLT (RNAV)-STAR | 1100-0400 |
| Orlando Intl (MCO) | OBK J84 DNV TTH BWG GQO ATL J89 OTK | 1100-0400 |
| onando ma (moo) | LEESE-STAR | 1100-0300 |
| | (GPS or DME/DME-IRU equipped) OBK J84 DNV | |
| | TTH BWG GQO ATL J89 OTK PIGLT | |
| Districted (DIII) | (RNAV)-STAR | 1100-0400 |
| Philadelphia (PHL) | OBK SAMPL ADIME GERBS J146 CXR EWC JST | |
| Pittsburgh (PIT) | BUNTS-STAROBK SAMPL ADIME OTENS ANEWA RIEKE DJB | |
| rittaburgii (i ii) | ACO CUTTA-STAR | |
| Portland (PWM) | SQUIB MKG ECK YXU BUF ALB CON PARSO | |
| Pottstown (PTW) | SQUIB ADALE J34 CRL CXR EWC JST | |
| Providence (PVD) | SQUIB MKG ECK J16 HANKK J522 HNK TEDDY-STAR | |
| Sarasota/Bradenton (SRQ) | OBK J73 SZW CLAMP-STAR | 1100-0300 |
| Syracuse (SYR) | SQUIB MKG ECK YXU BUF | |
| Tampa (TPA) | OBK J73 SZW DARBS-STARor | 1100-0300 |
| | (GPS or DME/DME-IRU equipped) OBK J73 SZW | |
| | FOXXX (RNAV)-STAR | 1100-0300 |
| Teterboro (TEB) | SQUIB MKG ECK J16 HANKK IGN WEARD V489 | |
| Talada (TOL) | COURT PANALIED | |
| Toledo (TOL)
Toronto (CYYZ) | SQUIB PMM LFD | |
| Washington Dulles (IAD) | SQUIB MKG ECK V216
OBK GIJ J146 J34 DJB J34 AIR MGW MGW121 | |
| Trading builds (IND) | VERNI ESL SHAAR ROYIL-STARor | |
| | OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34 | |
| | AIR MGW VERNI ESL SHNON (RNAV)-STAR | |
| Washington Natl (DCA) | OBK GIJ J146 J34 DJB J34 SHAAR WZRRD-STAR. or | |
| | OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34 | |
| West Palm Beach (PBI) | SHAAR ELDEE (RNAV)-STAR(GPS or DME/DME-IRU equipped) OBK J73 SZW | |
| most raini beach (i bi) | WLACE | |
| White Plains (HPN) | SQUIB MKG ECK J16 BUF ITH DNY VALRE-STAR | |
| Windsor Locks (BDL) | SQUIB MKG ECK J16 AUDIL SWEDE-STAR | |
| | OBK SAMPL ADIME GERBS CXR | |

Terminals

MOLINE (MLI)

Effective Times (UTC)

1100-0300

| Cleveland Metro Area (CLE) (CGF) (BKL) | |
|-----------------------------------------|--------------------------------------------|
| (LNN) (LPR) | ELX CRL HIMEZ-STAR |
| Detroit/Wayne (DTW) | MKG POLAR-STAR |
| MONTREAL (CYUL) | |
| Cincinnati (CVG) | (RNAV only) YOW J546 YSO MAULL KODIE CTW |
| | TIGRR (RNAV)-STAR |
| | or |
| | (all others) YOW J546 YSO YYZ JHW JHW194 |
| | MAULL SLT249 KODIE CTW081 CTW |
| | CINCE-STAR |
| Detroit/Wayne (DET) | YOW J546 |
| Kennedy (JFK) | V282 J524 BUGSY J570 ALB IGN IGN-STAR |
| La Guardia (LGA) | V282 J542 BUGSY J570 ALB PWL IGN V157 |
| PEORIA (PIA) | |
| Detroit/Wayne (DTW) | MKG POLAR-STAR |
| ROCKFORD (RFD) | |
| Cleveland Metro Area (CLE) (CGF) (BKL) | |
| (LNN) (LPR) | ELX CRL HIMEZ-STAR |
| SAGINAW (MBS) | |
| Cleveland Metro Area (CLE (CGF) (BKL) | |
| (LNN) (LPR) | MBS V133 SVM HIMEZ-STAR |
| SAINT THOMAS (CYQS) | |
| Detroit Metro Area (DTW, DET, YQG, PTK, | AVVIO DIOCO, OTAD |
| YIP, ARB) | AXXIS PICES-STAR |
| SOUTH BEND (SBN) | (DNAV and A) HILDING EDLIN (DNAV) CTAD |
| Atlanta (ATL) | (RNAV only) IIU BWG ERLIN (RNAV)-STAR |
| | IIU BWG ROME-STAR |
| Cincinnati (CVG) | FWA DEBAR-STAR |
| Cleveland Metro Area (CLE) (CGF) (BKL) | TWA DEDAK-STAK |
| (LNN) (LPR) | LFD CRL HIMEZ-STAR |
| TOLEDO (TOL) | ELD ONE THINEE OTHER |
| Atlanta (ATL) | VWV RID IIU BWG ROME-STAR |
| TORONTO (CYYZ) | |
| Cincinnati (CVG) | (RNAV only) THORL JHW MAULL KODIE CTW |
| | TIGRR (RNAV)-STAR |
| | or |
| | (all others) THORL JHW JHW194 MAULL SLT249 |
| | KODIE CTW081 CTW CINCE-STAR |
| La Guardia (LGA) | (above 250 kts) V252 GEE RKA HAARP-STAR |
| | or |
| | (250 kts or less) V252 GEE V14 BEEPS J522 |
| | EXTOL RKA292 RKA NOBBI-STAR |
| San Francisco (SFO) | GRB J106 GEP J70 ABR J32 FMG ILA PYE |
| | |
| | |

Route

Effective Times

(UTC)

Route

Terminals

Traffic originating east of Chicago Terminating Denver:

PREFERRED IFR ROUTES

| DJB | J60 IOW DSM J144 OBH J10 LBF | |
|----------------------------------------------------|---------------------------------------------------|-----------|
| | SAYGE-STAR | 1300-0100 |
| J16 MCW ONL J114 SNY LANDR-STAR | | |
| STL | STL J110 GCK J154 RYLIE DANDD-STAR | 1300-0100 |
| Traffic overflying Cleveland Center and south of S | | |
| HPN | (above 250 kts) SLT J190 CFB DNY280 DNY | |
| | VALRE-STAR | |
| | PSB J49 CFB220 CFB DNY280 DNY | |
| | VALRE-STAR | |
| | or | |
| | (250 kts or less) SLT J190 CFB DNY280 | |
| | DNY NOBBI-STAR | |
| | or | |
| | PSB J49 CFB220 CFB DNY280 DNY | |
| EWD. | NOBBI-STAR | 4400 0000 |
| EWR | ROD J29 J584 FQM-STAR | 1100-0300 |
| ROD J29 J70 LVZ LENDY-STAR | 1100–0300
or | |
| BKW J42 GVE KORRY-STAR | 1100-0300 | |
| PHL | ROD J152 HAR V210 BUNTS | 1100-0300 |
| | or | |
| | BKW J42 GVE DPNT-STAR | 1100-0300 |
| PIT | APE CTW V443 WISKE | |
| | or | |
| TED (MAIL (ODW (O - t - 11)) | HNN JPU V117 WISKE | |
| TEB/MMU/CDW/Satellites | (Non-Advanced Nav Aircraft only) ROD J29 | |
| | JHW J70 LVZ LVZ-STAR | |
| Traffic overflying Badger VORTAC, BAE to Washing | gton Dulles IAD: | |
| BAE | J34 AIR MGW MGW121 VERNI ESL | |
| | ROYIL-STAR | |
| | or | |
| | (GPS or DME/DME–IRU equipped) J34 AIR | |
| | MGW VERNI ESL SHNON (RNAV)-STAR | |
| Traffic overflying Gipper VORTAC, GIJ to Washingto | on Dulles IAD: | |
| GIJ | J146 WOOST J34 AIR MGW MGW121 VERNI | |
| | ESL ROYIL-STAR | |
| | or | |
| | (GPS or DME/DME-IRU equipped) J146 | |
| | WOOST J34 AIR MGW VERNI ESL SHNON | |
| | (RNAV)-STAR | |
| Traffic overflying Indianapolis Center area eastbo | | to JFK: |
| ABE | ROD CXR J146 | |
| 3DL | ROD J29 JHW J82 WILET RKA SWEDE-STAR. | |
| BWI
DEF | ROD J152 J162 MGW EMI-STAR
ROD J29 JHW J82 ALB | |
| FRG | ROD J29 JHW J82 J522 HNK IGN V58 V91 | |
| | CCC | |
| HPN | (above 250 kts) ROD J29 JHW J82 WILET | |
| | DNY VALRE-STAR) | |
| | or | |
| | (250 kts or less) ROD J29 JHW J82 WILET | |
| | DNY NOBBI-STAR | |
| SP | (above 250 kts) ROD J152 J78 PSB J49 HNK | |
| | J68 V130 TOMES MAD V34 CREAM V16 | |
| | CCC | |
| | or | |
| | (250 kts or less) ROD J152 J78 PSB J49 | |
| TED /MMIL /CDM//LDL | HNK DNY LOVES-STAR | |
| TEB/MMU/CDW/LDJ | ROD J29 JHW J70 LVZ-STAR | |
| | | |
| | | |
| | | |
| | | |
| EC. 23 S | EP 2010 to 18 NOV 2010 | |

Route

Effective Times

Effective

(UTC)

| Traffic overflying Indianapolis Center (ZID) to Chic | cago O'Hare (ORD) |
|------------------------------------------------------|---------------------------------------------------------------------|
| ORD | (Non-Advanced Nav Aircraft only) ATL J89 IIU
MZZ OXI KNOX-STARor |
| | (Non-Advanced Nav Aircraft only) BNA IIU |
| | MZZ OXI KNOX-STAR |
| | (Non–Advanced Nav Aircraft only) FLM J24 BIGXX MZZ OXI KNOX–STAR or |
| | (Non-Advanced Nav Aircraft only) IRQ J99 IIU
MZZ OXI KNOX-STARor |
| | (Non-Advanced Nav Aircraft only, |
| | Washington/Baltimore Metro Area Only: |
| | BWI, DCA, IAD) ROD J149 FWA |

Terminals

HIGH ALTITUDE—SINGLE DIRECTION ROUTES

KNOX-STAR....

| Airway | Segment Fixes | Direction
Effective | (UTC) |
|---------|-----------------------------------|------------------------|-----------|
| J24/110 | Indianapolis, IN to St. Louis, MO | West | 1100-0300 |
| J30 | Joliet, IL to TRIXY Intn, VA | East | 1100-0300 |
| J34 | Bellaire, OH to TRIXY Intn, VA | East | 1100-0300 |
| J149 | Armel, VA to Rosewood, OH | West | 1100-0300 |
| J162 | Bellaire, OH to Martinsburg, WV | East | 1100-0300 |

Q-ROUTES 378

RNAV MEAs will only be published if above FL 180.

Segment

ELMAA-ERAVE

FRAVE-FASON EASON-EBINY

EBINY-ENVIE

ENVIE-ETCHY ETCHY-POINT REYES

BOILE-HEDVI

HEDVI-HOBOL HOBOL-ITUCO

ITUCO-NEWMAN

FOWND-POINT REYES

FEPOT-FAMUK FAMUK-FRFLY

FRFLY-FINER FINER-FOWND

BOILE-HEDVI HEDVI-SCOLE

SCOLE-SPTFR

SPTFR-ZEBOL

7FBOL-SKTTR

HAROB-HISKU

HISKU-HARPR

HARPR-HOMEG HOMEG-HUPTU

HUPTU-STIKM

JINMO-JOGEN

JOGEN-JUNEJ

JUNEJ-JAGWA JAGWA-AVENAL

SUMMA-SMIGE

SMIGE-SUNBE

SUNBE-REBRG

REBRG-DERBB

PAAGE-PAWLI

PAWLI-PITVE

PITVE-PUSHH

All segments

All segments

PLESS-NASHVILLE

CORONA-HONDS

HONDS-UNNOS

UNNOS-FUSCO

GUSTI-OYSTY

OYSTY-ACMES

ACMES-CATLN

FUSCO-JUNCTION

JONEZ-RAZORBACK

PUSHH-LOS ANGELES

SKTTR-EL PASO

Route

Q1

Q2

Q3

04

Q5

Q7

Q9

Q11

013

Q15

Q19

Q20

021

Q22

Q23

O-ROUTES REGULATORY Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not

authorized. O routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to 0 routes in the Gulf of Mexico, Gulf of Mexico 0 routes are explained in the Southeast

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU

DME facilities that have been assessed for RNAV operations are listed below. O routes with no DME facilities listed are

CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT

BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS

OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG

BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT OED, EUG, RBL, LMT, ENI, CVO, FJS

OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS

PXR. BLH. BZA. GBN. TFD. TUS. SSO. CIE. SVC. TCS

SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS

OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH

ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV

LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS

EUG. FMG. SAC. IMB. LKV. OED. DSD. RBL. LMT. CVO. REO

FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ

CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA

IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG

OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED,

EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV,

SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS

RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED,

EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME

CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV

OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ

CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA

ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX

FST, ACH, INK, CME, SJT, TXO, TCC ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST

BYP, EOS, TUL, TXK, ADM, RZC, OKM

EC. 23 SEP 2010 to 18 NOV 2010

CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME

AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV

ROR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI

OAK, ECA, PYE, LIN, SAC, ENI, RBL

EPH, MWH

OED, SEA

None; GNSS required

None; GNSS required

CNX, INK, CME, TXO, TCC

SWR

FORT SMITH-RAZORBACK OKM, RZC, EOS, TUL

CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS

limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

BTG, OLM, HQM, HUH, UBG

LIN. ECA. RBL. ENI. SAC. OAK

LIN. ECA. PYE. RBL. SAC. ENI

EED, BLH, BZA, GBN, TRM, IPL, TFD EED, BLH, BZA, GBN, TRM, IPL, TFD

EED, IPL, BZA, GBN, TFD, PXR, BLH

TFD. GBN. BLH. PXR. TUS. CIE. SSO EWM, TFD, PXR, CIE, SSO, TUS, TCS

and South Central A/FD volumes. O routes listed in this A/FD volume have at least part of one of their leg segments within

this volume's area of coverage.

BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG

HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR

HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR

WALNUT RIDGE-WLSUN MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH BWG, PXV, ENL, BNA, TTH

WALNUT RIDGE-DEVAC LIT, JKS,GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG OKM, SGF, RZC, EOS, TUL

EIC. LIT. ELD. OKM. TXK

ARG, LIT, FAM, SGF, MEM

SQS, LIT, ELD, MEM, ARG

PXV, TTH, BWG, ENL

BWG, PXV, ENL, TTH

SQS, LIT, TXK

MEM. ARG. LIT. JAN. ELD. SOS

MEM, PXV, BNA, BWG, ARG, ENL

GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI

ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK

ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA

GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG

ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH

AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK

AEX. ELD. LIT. TXK. SWB. ARG. MEM. SOS

ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL

JAN, SOS, MEM, ARG, VUZ, BNA, LIT BWG, MEM, VUZ, BNA, GQO

LIT OWD TWY DVD FIG FID COO

BWG, IIU, PXV, VXV, BNA, GQO

AEX. LEV. MCB. LCH. ROR. HRV. BTR. GCV. MCB. PCU. SJI. LBY

Route

024

Q25

Q26

027

Q28

Q29

030

Q31

032

033

024

Segment

ROUGE

IRLIRE_PAYTN

LAKE CHARLES-BATON

BATON ROUGE-IRUBE

WLSUN-POCKET CITY

FORT SMITH-ZALDA

ESTEE-POCKET CITY

SIDAE-POCKET CITY

HARES-MEMPHIS

MEMPHIS_SIDAE

SIDON-VIII CAN

DHART-JODOX

JODOX-MARVELL

EL DORADO-GAGLE GAGLE-CRAMM

CRAMM-NASHVILLE

NASHVILLE-SWAPP

DHART-LITTLE ROCK

LITTLE ROCK-PROWL

MARVELL-TIIDE TIIDE-POCKET CITY

GRAZN-PYRMD

PYRMD-HAKAT

HAKAT-ESTEE

MEEOW-WALNUT RIDGE ELD. MEM. LIT. FAM. RZC

| Q34 | TEXARKANA-MATIE | LIT, SWB, TXK, BYP, EIC, ELD, SQS |
|------|---------------------|----------------------------------------------------------------------------|
| | MATIE-MEMPHIS | LIT, ARG, MEM, ELD, SQS |
| | MEMPHIS-SWAPP | BWG, ARG, MEM, MKL, SQS,PXV, BNA, GQO, IIU, VXV |
| Q35 | KIMBERLY-NEERO | LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO |
| | NEERO-WINEN | BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE |
| | WINEN-CORKR | CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK |
| | CORKR-DRAKE | TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD |
| Q36 | RAZORBACK-TWITS | RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT |
| | TWITS-DEPEC | MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU |
| | DEPEC-NASHVILLE | GQO, BWG, BNA, PXV, IIU |
| | NASHVILLE-SWAPP | VXV, BWG, BNA, GQO, PXV, IIU |
| Q38 | ROKIT-INCIN | DAS, LCH, SWB, IAH, LFK, HUB, AEX |
| | INCIN-LAREY | JAN, MCB, SWB, AEX |
| | LAREY-BESOM | JAN, JYU, MEI, SQS, VUZ |
| Q40 | ALEXANDRIA-DOOMS | AEX, SWB, LCH, JAN, HEZ, MCB |
| | DOOMS-WINAP | JAN, SQS, MEI, MCB |
| | WINAP-MISLE | MEI, VUZ, JYU |
| Q42 | KIRKSVILLE-STRUK | CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX |
| | STRUK-DANVILLE | ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, |
| | | OBK, GIJ, FWA, GSH, IRK |
| | DANVILLE-MUNCIE | GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM |
| | MUNCIE-HIDON | FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, |
| | | AIR, HVQ, CXR, EWC |
| | HIDON-BUBAA | AIR, APE, HNN, CXR, HVQ, EWC, DJB |
| | BUBAA-PSYKO | AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB |
| | PSYKO-BRNAN | PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT |
| | BRNAN-MAALS | EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE |
| | MAALS-SUZIE | ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK |
| | SUZIE-EAST TEXAS | JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN |
| | EAST TEXAS-ELIOT | HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK |
| Q104 | DEFUN-HEVVN | PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG |
| | HEVVN-PLYER | PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD |
| | PLYER-SWABE | PIE, ORL, OMN, SRQ, TAY |
| | SWABE-ST PETERSBURG | LAL, ORL, OMN, SRQ, PHK, PIE |
| | ST PETERSBURG- | PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN |
| | CYPRESS | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | EC | C. 23 SEP 2010 to 18 NOV 2010 |

| 380 | | Q-ROUTES |
|-------|--------------|----------------------------------------------------------------------------|
| Route | Segment | DME |
| Q106 | SMELZ-BULZI | LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW |
| | BULZI-DRABK | AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI |
| | DRABK-GADAY | MGM, PZD, OTK, JYU, SZW, CEW, SJI |
| Q108 | GADAY-HKUNA | CEW, JYU, MGM, SZW, RRS, PZD, MAI, OTK, GEF, MGR, TAY, AMG, CRG |
| Q110 | THNDR-JAYMC | SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI |
| Í | JAYMC-RVERO | VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP |
| l | RVERO-KPASA | OMN, PIE, PBI, SRQ, ORL, LAL |
| | KPASA-BRUTS | SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG |
| | BRUTS-GULFR | OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK |
| | GULFR-FEONA | TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM |
| Q112 | DEFUN-HEVVN | PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB |
| 1 | HEVVN-INPIN | JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG |
| Q116 | KPASA-BRUTS | SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG |
| 1 | BRUTS-GULFR | OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK |
| l | GULFR-CEEYA | MCN, AMG, PZD, OTK, SZW, TAY |
| Q118 | KPASA-BRUTS | SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG |
| ı T | BRUTS-LENIE | OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN |
| Q501 | VIXIS-GOPHER | ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU |
| 1 | | DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF |
| Í | GOPHER-SOBME | FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD |
| Q502 | KENPA-GOPHER | SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW, |
| 1 | | MSP, MNM, ASP, TVC, GEP, RWF, BRD |
| l | GOPHER-SOBME | FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD |
| 0504 | NOTAP-CESNA | SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC, |

ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD

SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI

GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB

SAW, GRB, BRD

SSM, TVC, ASP, SAW, GRB

CESNA-HEMDI

OMAGA-RIMBE

RIMBE-CESNA

CESNA-HEMDI

Q505

RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by pitch (entry into) and catch (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures.

route between the pitch and catch points, non-restrictive routing is permitted.

areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

preferred IFR routing, or other established routing programs.

only.

routing to their destination.

preferred IFR routes.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the

Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred

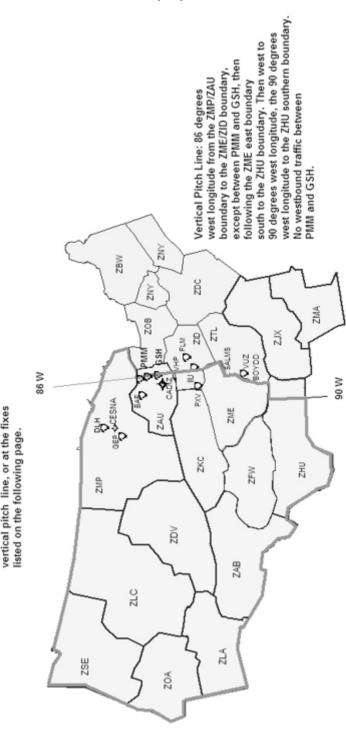
Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: http://sua.faa.gov/sua/Welcome.do. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as

High Altitude Redesign (HAR) Phase One Expansion Airspace

HAR expansion airspace may pitch

Except as noted, flights entering at the airspace boundary, at the



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HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports

Located Outside HAR Phase I Expansion Airspace Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing

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over any of the following pitch points (listed from north to south): DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on

the associated graphic. HAR Special High Altitude Pitch Points for Airports Located Within (below)

HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

ABO, GUP, HANOS or ZUN Albuquerque

ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV

Austin Boca Raton, FL

TBIRD KPASA Q118 LENIE

TBIRD KPASA Q116 CEEYA

TBIRD KPASA Q110 FEONA

TBIRD SMELZ 0106 BULZI

TBIRD SMELZ Q106 GADAY

Burbank includes GMN, MARKS Santa Monica and Van Nuvs DAG LAS

or HEC FED

or PMD BLH

Chicago Terminal Area IOW, PLL275065, MZV or BAE ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK

Dallas/Fort Worth Terminal Area ELD, SWB or

Aircraft destined the Chicago terminal area Except MDW EAKER MIDEE BDF BRADFORD-STAR

or MLC J105 SGF BDF BRADFORD-STAR

Denver Terminal Area PUB. DVC. DBL, RLG. EKR. LAR. MBW, CYS. BFF, HANKI, NATTI, ASHBY, BELKE.

CABET, WEEDS, OR BINKE

THNDR KPASA Q118 LENIE Fort Lauderdale (or)

Fort Lauderdale Executive

THNDR KPASA Q110 FEONA THNDR SMELZ Q106 GADAY

THNDR KPASA Q116 CEEYA

THNDR SMELZ Q106 BULZI

LIT, ELD, MLC, JCT

Houston Bush

Aircraft destined Atlanta Terminal Area LCH 024 PAYTN HONIE-RNAV STAR

Aircraft joining J37 to the northeast, GUSTI SID GUSTI Q22 CATLN

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Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING 384 Houston Hobby LIT, ELD, MLC, JCT, Aircraft joining J42 to the northeast, EL DORADO SID ELD 032 J42 Jacksonville, FL Kansas City Terminal Area TIFTO, CATTS or KENTN Los Angeles, includes GMN, RZS Ontario DAG LAS $\cap r$ TRM EED TRM PKE Las Vegas DOBNE, MOSBI, NICLE, TRALR or ZELOT GMN SNS, EHF, LANDO Long Beach includes Orange County TRM PKE TRM EED BNA, HAAWK, SALMS or SQS Memphis Miami Terminal Area WINCO KPASA Q118 LENIE WINCO KPASA Q116 CEEYA or WINCO KPASA Q110 FEONA WINCO SMELZ Q106 GADAY WINCO SMELZ Q106 BULZI Milwaukee **GREAS** Minneapolis Terminal Area* ONL, ABR, FAR, OBH, OVR, FOD New Orleans Terminal Area AEX, MEI, SQS, KAPLN Orlando Terminal Area WEBBS BRUTS Q118 LENIE WEBBS GULFR Q116 CEEYA WEBBS BULZI Q106 GADAY WEBBS FEONA WEBBS BULZI Palm Beach, FL TBIRD KPASA Q118 LENIE TBIRD KPASA Q116 CEEYA TBIRD KPASA Q110 FEONA TBIRD SMELZ Q106 BULZI TBIRD SMELZ Q106 GADAY Palm Springs TRM JOTNU BLD or TRM EED TRM PKE Phoenix CHILY, CIE. CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK PDT. TIMEE Portland, OR

TCH J173 EKR

VIH, MAP, MYERZ, MCM

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TCH J56 CHE ٥r

> HLV MCI FUZ. SJT. MOP. ABI

Saint Louis

San Diego

Oakland

San Jose

(RSW/FMY)

Seattle

San Antonio Terminal Area

San Francisco Bay Area

Southwest Florida Airports

Tampa Terminal Area

Atlanta Terminal Area

Aircraft North of LFK, LFK

Aircraft South of HUB, ELA Aircraft South of LFK and North of HUB LCH TRM EED or TRM PKE or

TRM JOTNU BLD GALLI, INSLO, HAROL JSICA BLUIT

GALLI, INSLO, HAROL JSICA GALLI or INSLO JOCKS KPASA Q118 LENIE or JOCKS KPASA Q116 CEEYA

JOCKS KPASA Q110 FEONA JOCKS SMELZ Q106 GADAY

JOCKS SMELZ Q106 BULZI FEONA, BULZI

BRUTS Q118 LENIE GULFR Q116 CEEYA BULZI Q106 GADAY

MEM

BWG, BWG

MEI HONIE (RNAV)-STAR PATYN HONIE (RNAV)-STAR

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*MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing. Catch Points for Airports Located Outside HAR Phase I Expansion Airspace This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC

Aircraft through ZME airspace from ZID airspace west of a line from VHP to

Aircraft through ZME airspace from ZID airspace east of a line from VHP to

Aircraft through ZME airspace from ZFW airspace, MEM

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING 386 Baltimore-Washington* GIJ. GEP. FLM. IIU. BAE. VHP. WHETT. BNA or VUZ Boston* GEP, CRL, ECK, IIU, BNA or VUZ

GEP, CRL

GEP, CRL

BNA. PXV

GIJ. VHP. GEP

Charlotte BNA. VUZ

or Aircraft north of SLC, JOT

> Aircraft over or south of SLC, ENL SLC or SFO departures, ENL, JOT

Cleveland Terminal Area*

Ruffalo*

Louisville

Newark*

New York Kennedy*

White Plains*

Willow Run*

Q505, Q504, Q502, Q501

Hartford Bradley*

Cincinnati Terminal Area

Canton-Akron*

OBK Detroit Terminal Area BAE MKG POLAR-STAR Detroit Young

VHP FWA MIZAR-STAR VHP FWA or LAN SPRTN-STAR Indianapolis Terminal Area

BIB, SPI, JOT ENL, MEM

GEP, VHP, FLM, IIU, BNA, VUZ New York LaGuardia*

IOW GIJ J554 CRL J584 SLT FQM GEP, VHP, FLM, IIU, BNA, VUZ DBQ J94 PMM J70 LVZ LENDY-STAR GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ VHP, GIJ, BAE, GEP

Philadelphia Terminal Area* Pittsburgh Terminal Area* LFD, LAN, VHP, FWA, GEP JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ

FLM, IIU, BNA, VUZ

Pontiac Providence Raleigh-Durham Toronto Terminal Area Teterboro*

Washington Dulles/National*

ECK, SVM, SSM, GEP

GEP, VHP, CRL, BNA, VUZ GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ GEP. VHP. CRL. FLM. IIU. BNA. VUZ

LAN, LFD, VHP, FWA, GEP *Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

ESPAN FRIHO-STAR

Albuquerque Terminal Area CURLY CURLY-STAR

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

LAVAN LAVAN-STAR

FTI FRIHO-STAR or

MIERA MIERA-STAR

Austin Terminal Area Aircraft west of a north-south line at LFK, BLEWE

Aircraft east of a north-south line at LFK.IDU or CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR Boca Raton, FL

Aircraft through ZHU remain south of ZME and ZTL airspace DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace

SZW INPIN SHDAY (RNAV)-STAR CVA MOTIF-STAR

Chicago Midway or PIA MOTIF-STAR or

DBO CVA MOTIF-STAR LMN MOTIF-STAR

Chicago O'Hare Terminal Area GEP DLL MSN JVL JANESVILLE-STAR ٥r

TVC PULLMAN-STAR FOD DBQ JVL JANESVILLE-STAR

MCW JANESVILLE-STAR ٥r

GCK IRK BRADFORD-STAR IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR Aircraft through ZME airspace from north and west of PXV, RZC, 023 FSM

Dallas/Fort Worth Terminal Area

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Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW

Aircraft through ZME airspace from J52 and south of J52, SQS

Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING 388 Denver Terminal Area OATHE DANDD-STAR HGO QUAIL-STAR LOPEC-STAR or ALS LARKS-STAR HBU POWDR-STAR or EKR TOMSN-STAR CHE TOMSN-STAR or BFF LANDR-STAR or LBF SAYGE-STAR HCT SAYGE-STAR RSK LARKS-STAR LAA QUAIL-STAR GCK J154 RYLIE DANDD-STAR OCS J154 ALPOE RAMMS-STAR YANKI J114 SNY LANDR-STAR Aircraft filed BIL or east, MBW RAMMS-STAR Ft Lauderdale or CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR Ft Lauderdale Executive Aircraft through ZHU airspace remain south ZME and ZTL airspace

Ωr SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR CRP, CVE, LLO, LUKIY, SAT or

Houston Bush

Houston Hobby

Jacksonville

Aircraft south and east of LLA, JEPEG MISLE Q40 AEX Aircraft north and east of SJI, SJI Aircraft east of PXV, PXV Q31 DHART SWB Aircraft north and west of PXV. PROWL 033 DHART SWB

CRP, ELLVR, SAT, SWB or Aircraft south and east of GIRLY, KCEEE Aircraft north and east of SJI, SJI BESOM Q38 ROKIT ROKIT-STAR Aircraft east of PXV. PXV 029 HARES SWB **GADAY ZOOSS TAY**

airspace or **ZOOSS TAY**

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Aircraft north and west of PXV, PROWL Q33 DHART SWB Aircraft through ZHU airspace remain south of ZME and Z

| Minneapolis Terminal Area | Aircraft from north, west, south, FAR GOPHER-STAR or RWF SKETR-STAR or ALO KASPR-STAR or BRD GOPHER-STAR or BAE EAU CLAIRE-STAR or FOD TWOLF-STAR |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Memphis Terminal Area | ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD |
| Naples, FL | CEW DEFUN Q104 PLYER PIKKR (RNAV)-STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL airspace or SZW HEVVN Q104 PLYER PIKKR (RNAV)-STAR |
| Nashville | CCT, GHM, GUITR, TINGS, VOLLS |
| New Orleans Terminal Area | BLUEZ, GPT, LCH, MCB, TBD, FATSO |
| Oakland | ILA or KATTS PAMMY or Aircraft over or south of a line ILC J16 DVC REANA KATTS PAMMY or Aircraft from north of ILC, JOPER PAMMY or KATTS PAMMY or Aircraft over or south of ILC, REANA KATTS PAMMY |
| Orlando Terminal Area | GADAY Q108 CLAWZ LEESE-STAR |

airspace OTK LEESE-STAR

HEC, PGS, BLD

LMN BRAYMER-STAR PWE ROBINSON-STAR EMP JHAWK-STAR

DILCO, LIDAT, IGM

MESSI

Aircraft south of TBC from ZAB airspace, HIPPI

Aircraft over PGA or north of PGA KSINO Aircraft south of PGA PGS LYNSY

Aircraft South of TBC from ZAB airspace, HIPPI,

CEW DEFUN Q104 CYY DEEDS (RNAV)-STAR

SZW HEVVN Q104 CYY DEEDS (RNAV)-STAR

Aircraft through ZHU airspace remain south of ZME/ZTL

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Aircraft through ZHU airspace remain south ZME and ZTL airspace

Aircraft North of TBC, HEC, PGS

John Wayne-Orange County

Kansas City Terminal Area

Los Angeles Terminal Area

Miami Terminal Area

Las Vegas

| 390 HIGH | ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Palm Beach, FL | CEW DEFUN Q112 INPIN GULLO (RNAV)—STAR
Aircraft through ZHU airspace remain south of ZME and Z
airspace
or
SZW INPIN GULLO (RNAV)—STAR |
| Phoenix | CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or VYLLA TUS |
| Phoenix Satellites | FLG, SSO, MOHAK
or
VYLLA, TUS |
| Portland, OR Terminal Area | ARNIT BONVL-STAR or LARNO BONVL-STAR or MOXEE MOXEE-STAR |
| St. Louis Terminal Area | SGF TRAKE-STAR
or |

BUM TRAKE-STAR ANX TRAKE-STAR

LMN IRK RIVRS-STAR RBS VANDALIA-STAR Salt Lake City Terminal Area JNC J12 HELPR SPANE-STAR EKR MTU SPANE-STAR BCE DTA-TCH or

MLF DTA-TCH or BVL BONNEVILLE-STAR BYI BEARR-STAR or PIH BEARR-STAR DBS BRIGHAM CITY-STAR

San Diego Terminal Area

Santa Ana

San Antonio Terminal Area

or

JAC BRIGHAM CITY-STAR EED. LAX. GBN

BPI BRIGHAM CITY-STAR OCS BRIGHAM CITY-STAR HEC, PGS, BLD, HIPPI

IDU, CSI, JCT, LLO, CRP, LRD West of a north-south line at LFK, BLEWE

East of a north-south line at LFK, IDU

| HIGH ALTITUDE | REDESIGN | (HAR) | PHASE | 1 | RNAV ROIITING | |
|-----------------|-----------|--------|--------|---|------------------|--|
| IIIUII ALIIIUUL | ILLDESIGN | VIIAIV | IIIASE | | INITAL INDUITING | |

MVA MODESTO-STAR

San Francisco

San Jose

Seattle Terminal Area

Southwest Florida Airports

Tampa Terminal Area

RSW and FMY

Tucson

ENI GOLDEN GATE-STAR

FMG GOLDEN GATE-STAR

OAL MODESTO-STAR South of a line ILC to DVC.

REANA KATTS OAL MODESTO-STAR

FMG HYP EL NIDO-STAR

OAL HYP EL NIDO-STAR

ENLIGOLDEN GATE-STAR

South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO-STAR

Aircraft from northeast, southeast, south,

TEMPL GLASR-STAR or

SUNED CHINS-STAR BTG OLMYPIA-STAR

CEW DEFUN 0104 SWABE JOSFF-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace or

SZW HEVVN Q104 SWABE JOSFF-STAR

CEW DEFUN Q104 HEVVN DARBS-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

or

SZW DARBS-STAR

DRK PXR or

MOHAK GBN

VFR WAYPOINTS

using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

COLLOCATED VER CHECKPOINT

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WAYPOINT IDENT

VISUAL FLIGHT RULES (VFR) WAYPOINTS VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Chart-

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name. VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

LOCATION

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

BALTIMORE-WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

| COLLOGATED VI II CHECKI CHI | LOGATION |
|-----------------------------|------------------------|
| | N38°34.57′/W076°20.38′ |
| | N39°06.65′/W076°55.92′ |
| | N38°56.32′/W076°36.90′ |
| BOSTON HELICOPTER (| CHART |
| | N42°16.17′/W070°49.48′ |
| | N42°19.67′/W070°53.40′ |
| | N42°22.08′/W071°03.13′ |
| | N42°23.52′/W071°04.10′ |
| | N42°12.58′/W071°08.88′ |
| | |

VPFRF N42°25.03'/W071°12.32'

N42°21.88′/W070°52.18′ VPGVI VPHΔM N42°30.13′/W071°07.15′

VPPIK VPOLIA **VPQUB** VPSPF

VPTOR VPWAN

VPCOH COHASSET

BOSTON TERMINAL AREA CHART CUTTYHUNK HARBOR

FRAMINGHAM SHOPPING CENTER

VPCUT VPFRA **VPHOL** WOODS HOLE

VPHIII HULL

NANTUCKET GREAT POINT

NEEDHAM TOWERS

VPLPT VPNFD V/DDFA PEABODY SHOPPING CENTER VPROC ROCKINGHAM RACE TRACK SCITUATE

VPSCI NANTUCKET THIRD POINT VPTPT **VPTUC** TUCKERNUCK VPWΔK WAKEFIELD VPWAN WANG TOWERS

CHARLOTTE SECTIONAL CHART

VPATO VPAVA VPRFF VPRRA VPGCE

VPGHI

VPGIO

VPK III

VPLMN

VPMAR

VPNIPO

VPOKY

VPREP

VPRRS

VPUMO

VPWZO

VP7IF

ISLE OF DALMS

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N36°13.75'/W076°08.08' N36°03.90'/W076°36.42' N35°15.30'/W075°31.25' N35°32.50'/W076°37.33' N35°26.58'/W076°10.22'

N34°55.43'/W077°46.42'

N34°42.20'/W077°03.50' N32°47.78′/W079°46.45′

N35°06.53'/W075°59.17'

N32°33.98'/W080°21.82'

N33°25.45'/W079°07.60'

N35°35.63'/W075°28.08'

N36°00.87'/W075°40.07'

N32°01.62'/W080°53.42'

N42°20.37'/W071°15.93' N42°12.10′/W071°04.78′

N42°12.60'/W070°59.83'

N42°24.20'/W071°09.47'

N42°31.42′/W070°59.82′

N42°36.88'/W071°19.45'

N42°13.58'/W070°48.94'

N41°25.50'/W070°55.03'

N42°18.16'/W071°23.65'

N41°31.06′/W070°40.60′

N42°18.20′/W070°55.30′

N41°23.41'/W070°02.78'

N42°18.51'/W071°14.64'

N42°32.52'/W070°56.69'

N42°46.29'/W071°13.57'

N42°11.89'/W070°43.69'

N42°36.88'/W071°19.45' N34°37.37'/W076°31.47' N34°57.00′/W077°16.50′ N32°16.38'/W080°47.50'

N41°18.51'/W070°03.37' N41°18.31'/W070°15.43' N42°30.72'/W071°05.24'

DENVER TERMINAL AREA CHART/FLYWAY CHART

| | DENVER TERMINAL AREA CHAR | I/FLIWAI GNAKI |
|----------------|----------------------------|--------------------------------------------------|
| VPBEN | | N39°44.28′/W104°26.00′ |
| VPFTG | | N39°44.35′/W104°32.75′ |
| VPNIC | NORTH INTERCHANGE | N39°58.90′/W104°59.27′ |
| | HOUSTON TERMINAL AREA CHAR | T/FLYWAY CHART |
| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
| VPBWY | OCCOMICS THE ONE OWN | N29°46.25′/W095°09.24′ |
| VPDTN | | N29°46.59′/W095°22.01′ |
| VPGLA | | N30°08.32′/W095°06.62′ |
| VPGLB | | N30°07.80′/W094°55.70′ |
| VPKTY | | N29°47.05′/W095°44.92′ |
| VPPLN | | N30°08.80′/W095°50.42′ |
| VPRSN | | N29°30.00′/W095°41.00′ |
| VPSND | | N29°23.13′/W095°28.86′ |
| VPSNT | | N29°49.29′/W094°53.94′ |
| VPTNE | | N29°47.48′/W095°03.34′ |
| VPTNW | | N29°47.06′/W095°33.81′ |
| VPTRK | | N29°24.06′/W095°10.44′ |
| | JACKSONVILLE SECTION | AI CHART |
| VDAEL | JACKSONVILLE SECTION | |
| VPAFI | | N31°49.35′/W081°51.07′ |
| VPAFY | | N30°07.00′/W081°21.33′ |
| VPBEC | | N29°46.25′/W081°15.10′ |
| VPCJA | | N29°30.00′/W081°06.00′ |
| VPCKY | - | N28°46.50′/W082°34.00′ |
| VPCNY | DADE OITY | N28°30.00′/W080°45.00′ |
| VPDAD | DADE CITY | N28°22.57′/W082°11.25′ |
| VPDAR | | N31°22.38′/W081°24.13′ |
| VPDFI
VPDUT | | N29°00.17′/W081°20.85′ |
| | OLEADWATED DEACH | N27°37.70′/W082°09.10′ |
| VPEAR | CLEARWATER BEACH | N27°58.67′/W082°49.83′ |
| VPEGV | | N29°39.97′/W081°24.87′ |
| VPFFU
VPGPE | CT DETE DEACH | N28°57.08′/W081°00.33′ |
| VPHAA | ST PETE BEACH | N27°43.50′/W082°44.67′ |
| VPHAA | | N30°04.02′/W083°40.02′
N28°19.87′/W082°43.77′ |
| VPIWA | MIDWAY | · · |
| | WIDWAT | N31°48.33′/W081°25.85′ |
| VPJMY
VPKER | LAKE PARKER | N29°26.92′/W081°18.27′
N28°04.00′/W081°56.00′ |
| VPLEV | LANE PARNER | N28°48.00′/W081°52.00′ |
| VPLJA | | N29°00.00′/W080°51.00′ |
| VPMAI | | N30°50.02′/W084°56.63′ |
| VPTLH | | N30°32.70′/W083°52.22′ |
| VPXZY | | N29°35.00′/W083°10.00′ |
| VPYIW | | N30°42.28′/W081°27.25′ |
| VPZIE | | N32°01.62′/W080°53.42′ |
| | KANSAS CITY SECTIONA | , |
| VPACO | NANSAS GITT SEGITUNA | |
| VPAGO | | N37°50.33′/W090°29.03′ |
| VPBEK | - | N37°15.07′/W092°30.67′ |
| VPDEN | | N37°46.75′/W092°19.20′ |
| VPENE | | N37°44.75′/W091°55.78′ |
| VPESS | | N36°59.48′/W091°00.88′ |
| VPFME | | N37°41.00′/W092°38.33′ |
| VPGXY | | N37°15.50′/W091°40.17′ |
| VPMBE | | N37°11.08′/W090°27.92′ |
| VPMKE | | N37°24.47′/W092°40.00′ |
| VPROV | | N38°01.72′/W091°12.81′ |
| VPUTT | | N37°52.05′/W092°01.20′ |
| | | |

VFR WAYPOINTS 394 WAYPOINT IDENT COLLOCATED VER CHECKPOINT LUCATION VPWOC N37°18.03'/W092°18.63 **VPWRO** N37°39.12'/W091°45.68 **VPXIZ** N37°26.60′/W092°05.42 KANSAS CITY TERMINAL AREA CHART **VPATN** N39°33.62′/W095°07.65 **VPBGS** BLUE SPRINGS N39°01.82′/W094°16.32 VPBSP BONNER SPRINGS N39°03.78'/W094°53.10 **VPCHB** CHOUTEAU BRIDGE N39°08.77'/W094°32.03 VPDSO DF SOTO N38°58.68'/W094°58.48 VPESG EXCELSIOR SPRINGS N39°20.68'/W094°13.77 **VPGTB** N39°40.92'/W094°41.45 GARRETSBURG **VPLAT** LATHROP WATER TANK N39°32.87′/W094°20.00 VPLEN N38°57.77′/W094°43.68 LONGVIEW LAKE N38°54.63′/W094°28.28 VPI VI VPMCL MC LOUTH N39°11.65′/W095°12.50 VΡΝΗΔ N39°17.83′/W094°34.80 NASHIIA **VPSCX** SPORTS COMPLEX N39°03.00′/W094°29.02 **VPSKR** SUGAR CREEK REFINERY N39°07.00′/W094°27.02 VPSPK SWOPE PARK N39°00.47'/W094°31.93 VPTSK TWIN STACKS N39°09.05'/W094°38.22 WORLDS OF FUN N39°10.42′/W094°29.12 KLAMATH FALLS SECTIONAL CHART N43°57.38'/W123°02.22 **VPORO** LOS ANGELES HELICOPTER CHART **VPANA** N33°44.43'/W117°50.03 VPART MAGNOLIA N33°51.45′/W117°58.92 VPAUT HWY 91 & 55 N33°50.63'/W117°49.57 **VPROR** N33°59.60'/W117°21.45 **VPCAR** N33°49.90'/W118°17.23 N34°12.54′/W118°59.61 **VPCNG** CONEJO GRADE US HWY 101 **VPCOR** N33°52.90′/W117°32.95 N34°01.40′/W117°44.88 **VPCSU** CSU CHANNEL ISLANDS N34°09.76′/W119°02.53 VPDOW N33°56.47′/W118°05.80 **VPELA** N34°00.98'/W118°10.35 **VPETY** N33°38.70′/W117°44.12 **VPFCB** N34°02.03'/W118°01.63 OXNARD FINANCIAL PLAZA VPFPL N34°13.71′/W119°10.39 **VPGOL** N34°09.33'/W118°17.37 VPIMP N33°55.85'/W118°16.85

VPKAT N33°48.23'/W117°54.22 VPKFI N34°03.92′/W117°48.40 **VPLAC** N34°03.75'/W118°14.93 N34°03.85'/W117°17.82 **VPLQM** OUEEN MARY N33°45.17'/W118°11.37

SANTA ANITA RACE TRACK

VINCENT THOMAS BRIDGE

VPRRT VPSEP VPSTC SATICOY BRIDGE VPSTK

NEWHALL PASS

VPLRT

VPLVT

VPMDR

VPNEW

VPNUY

VPPCH

VPPKC

VPPOR

N34°08.45'/W118°02.65 N33°44.97'/W118°16.32

N33°59.27'/W118°23.97

N34°20.18'/W118°30.72

N34°09.63'/W118°28.18

N33°28.07'/W117°40.32

N34°03.32′/W118°12.83

N34°00.10′/W117°50.12

N33°59.37'/W118°16.83

N34°05.80'/W118°28.63 N34°17.45′/W118°28.07

N34°16.62′/W119°08.34

N34°13.97'/W118°24.60

LOS ANGELES SECTIONAL CHART

| WAYDOINT IDENT | OOLLOGATED VED OUEGVEGINT | LOCATION |
|----------------|--------------------------------|--------------------------------------------------|
| WAYPOINT IDENT | COLLOCATED VFR CHECKPOINT | LOCATION |
| VPCNG | CONEJO GRADE US HWY 101 | N34°12.54′/W118°59.61′ |
| VPCSU | CSU CHANNEL ISLANDS | N34°09.76′/W119°02.53′ |
| VPFPL | OXNARD FINANCIAL PLAZA | N34°13.71′/W119°10.39′ |
| VPSTC | SATICOY BRIDGE | N34°16.62′/W119°08.34′ |
| | LOS ANGELES TERMINAL AREA CHAR | T/FLYWAY CHART |
| VPCNG | CONEJO GRADE US HWY 101 | N34°12.54′/W118°59.61′ |
| VPCSU | CSU CHANNEL ISLANDS | N34°09.76′/W119°02.53′ |
| VPGTY | GETTY CENTER | N34°04.84′/W118°28.66′ |
| VPLBP | BANNING PASS | N33°56.05′/W116°59.63′ |
| VPLCC | CHAFFEY COLLEGE | N34°08.87′/W117°34.33′ |
| VPLCP | CAJON PASS | N34°18.07′/W117°27.68′ |
| VPLDL | DISNEYLAND | N33°48.72′/W117°55.13′ |
| VPLDP | DANA POINT | N33°27.62′/W117°42.87′ |
| VPLDS | DODGER STADIUM | N34°04.42′/W118°14.42′ |
| VPLFX | 91/605 INTERCHANGE | N33°52.38′/W118°06.08′ |
| VPLGP | GRIFFITH PARK OBSERVATORY | N34°07.10′/W118°18.02′ |
| VPLHF | 110/405 FWYS | N33°51.42′/W118°17.10′ |
| VPLHP | HUNTINGTON PIER | N33°39.32′/W118°00.25′ |
| VPLKH | KING HARBOR | N33°50.75′/W118°23.88′ |
| VPLLC | | N34°00.83′/W118°17.27′ |
| VPLLM | L.A. COLISEUM
LAKE MATHEWS | N33°50.58′/W117°26.85′ |
| VPLMM | | N34°26.20′/W118°36.28′ |
| VPLMS | MAGIC MOUNTAIN | N33°43.40′/W117°56.77′ |
| VPLPD | MILE SQUARE PARK | N33°53.40′/W117°38.48′ |
| VPLPP | PRADO DAM | N34°02.13′/W118°32.15′ |
| VPLQM | PACIFIC PALISADES | N33°45.17′/W118°11.37′ |
| VPLRB | QUEEN MARY | N34°09.67′/W118°10.05′ |
| VPLRT | ROSE BOWL | N34°08.45′/W118°02.65′ |
| VPLSA | SANTA ANITA RACE TRACK | N33°52.03′/W117°42.68′ |
| VPLSB | SANTA ANA CANYON | N33 52.03 /W117 42.06
N34°07.72′/W117°57.30′ |
| VPLSC | SANTA FE FLOOD BASIN | N33°52.97′/W117°53.13′ |
| | STATE COLLEGE | |
| VPLSF
VPLSP | SAN FERNANDO RESERVOIR | N34°17.87'/W118°29.00'
N33°36.33'/W117°48.63' |
| | SIGNAL PEAK | · · |
| VPLSR | HAWTHORNE & 405 FREEWAY | N33°53.07′/W118°21.13′ |
| VPLSS | SANTA SUSANA PASS | N34°16.00′/W118°38.43′ |
| VPLTW | TUJUNGA WASH & FOOTHILL | N34°16.40′/W118°20.30′ |
| VPLVT | VINCENT THOMAS BRIDGE | N33°44.97′/W118°16.32′ |
| VPLWT | WATER TANK | N34°10.82′/W118°46.27′ |
| VPNEW | NEWHALL PASS | N34°20.18′/W118°30.72′ |
| VPSTC | SATICOY BRIDGE | N34°16.62′/W119°08.34′ |
| | MIAMI SECTIONAL CHA | RT |
| VPACH | | N26°00.92′/W080°06.93′ |
| VPBOV | HOLLYWOOD BEACH | N20 00.92 /W080 00.93
N27°57.00′/W080°46.75′ |
| VPCLE | | N26°27.07′/W082°00.88′ |
| VPCTE | | N26°09.28′/W081°20.70′ |
| VPDAD | | N28°22.57′/W082°11.25′ |
| VPDUT | DADE CITY | N26 22.57 /W082 11.25
N27°37.70′/W082°09.10′ |
| VPDZE | | |
| | | N27°19.00′/W080°44.17′ |
| VPEAR | CLEARWATER BEACH | N27°58.67′/W082°49.83′ |
| VPEDY | ANDYTOWN TOLLGATE | N26°08.78′/W080°28.00′ |
| VPFAH | | N26°25.40′/W081°29.67′ |
| VPGPE | ST PETE BEACH | N27°43.50′/W082°44.67′ |
| VPHRO | | N27°05.97′/W082°12.20′ |
| VPHUC | | N28°19.87′/W082°43.77′ |
| VPIBR | | N27°12.47′/W081°40.22′ |
| VPKER | LAKE PARKER | N28°04.00′/W081°56.00′ |
| VPKOE | | N24°40.08′/W081°20.55′ |
| VPLYY | | N24°49.07′/W080°49.17′ |
| VPMBO | GULFSTREAM PARK | N25°58.57′/W080°08.17′ |
| VPOBA | PUMPING STATION | N26°28.30′/W080°26.75′ |
| VPRBI | | N25°50.67′/W080°55.18′ |
| VPRNL | RANGER STATION | N25°22.92′/W080°36.58′ |
| VPWMO | | N27°03.00′/W080°35.00′ |
| | | |

MIAMI TERMINAL AREA CHART/FLYWAY CHART WAYPOINT IDENT COLLOCATED VFR CHECKPOINT VPACH

HOLLYWOOD BEACH

GUI ESTREAM PARK

PUMPING STATION

ANDYTOWN TOLLGATE

VPRNL RANGER STATION NEW ORLEANS SECTIONAL CHART **VPGPT** VPLIP PHILLIPS INLET VPMAI **VPMOB**

396

VPEDY

VPMBO

VPOBA

VPRBI

VPRAM

VPRER

VPRIV

VPSAW

VPTHR

VPIAY **VPLYD**

VPROK

VPALL

VPAOU

VPARM

VPAWG

VPA7M

VPBAR

VPCCC

VPFTN

VPGLX

VPGPP

VPMAR

VPMHS

VPNRV

VPNTT

VPPIR

VPOTR

VPRVC

VPSMC

VPSOP

VPSSS

VPSTN

VPSTT

VPZZZ

VPAGN

VPBPE

VPCJY

VPCOJ

VPDFA

VPFA7

VPFD7

VPEGR

VPFOX

VFR WAYPOINTS

ALLENVILLE

ARIZONA MILLS

BARTLETT DAM

FIREBIRD LAKE

FOUNTAIN HILLS

GILA CROSSING

MARICOPA

NFW RIVER

SOUAW PEAK

TV ANTENNA

HOLIDAY SHORES

BUSCH STADIUM

WINFIELD DAM

WATER TANKS

GAS TANKS

ST PETERS

GLENDALE POWER PLANT

MESOUITE HIGH SCHOOL

OUINTERO GOLF COURSE

RIO VERDE COMMUNITY

SANTAN MOUNTAINS

SOUTH TEST TRACK

SOUTH MOUNTAIN COLLEGE

SUPERSTITION SPRINGS MALL

JEFFERSON BARRACKS BRIDGE

EC. 23 SEP 2010 to 18 NOV 2010

NORTH TEST TRACK

CANAL

NEW YORK HELICOPTER CHART

PHOENIX TERMINAL AREA CHART/FLYWAY CHART AOUEDUCT PUMPING STATION ARROWHFAD MALL AHWATUKEE GOLF COURSE

COUNTRY CLUB & CANAL

ST LOUIS TERMINAL AREA CHART/FLYWAY CHART

N33°20.97'/W112°35.20 N33°40.05'/W112°41.38 N33°38.52′/W112°13.48 N33°19.98'/W111°59.08 N33°23.43'/W111°57.88 N33°49.10′/W111°37.92 N33°30.73'/W111°50.37 N33°33.23'/W111°46.89 N33°16.35'/W111°58.10 N33°36.12'/W111°42.72 N33°16.55'/W112°10.08

LOCATION

N26°00.92'/W080°06.93

N26°08.78'/W080°28.00

N25°58.57′W080°08.17′

N26°28.30′/W080°26.75

N25°50.67'/W080°55.18

N25°22.92'/W080°36.58

N30°25.95'/W089°05.62

N30°16.23'/W085°59.25

N30°50.02'/W084°56.63

N30°23.00′/W088°31.72

N30°18.95′/W089°35.88

N30°13.87'/W085°20.67

N30°54.85'/W087°57.82

N30°49.65'/W089°07.42

N30°19.93'/W087°08.50

N40°59.00′/W073°07.00

N40°57.37'/W073°29.59

N40°52.70′/W073°44.24

N33°33.27'/W112°13.00 N33°03.42'/W112°02.88 N33°20.53'/W111°49.58 N33°55.08'/W112°08.45 N33°03.50′/W111°55.83

N33°22.52′/W112°18.90 N33°49.53'/W112°23.58 N33°44.37'/W111°39.62 N33°23.02′/W112°02.12 N33°32.83′/W112°01.27 N33°23.50′/W111°41.37 N33°09.23'/W111°40.92

N32°56.25'/W111°59.67

N33°20.18'/W111°26.53

N38°32.08′/W090°22.42 N38°23.80′/W090°20.38 N38°55.00′/W089°56.00

N39°00.28'/W090°41.23 N38°29.18'/W090°16.47 N38°37.43′/W090°11.55 N38°45.30′/W090°34.87 N38°35.80′/W090°19.32

N38°47.17'/W090°39.25

VFR WAYPOINTS WAYPOINT IDENT LOCATION COLLOCATED VER CHECKPOINT VPFAI N38°40.00'/W090°43.00' HOWELL ISLAND N38°55.37′/W090°17.30′ VPFFY VPGPF N38°35.60′/W090°26.92′ **VPGVI** N38°32.30′/W090°27.80′ N38°45.88'/W090°10.42' **VPHRO** CHAIN OF ROCKS BRIDGE **VPIBO** N38°20.00'/W090°09.00' WATERI OO

> N38°48.83'/W090°50.98' WENT7VII I F N39°07.00'/W090°20.00' JERSEYVILLE. N38°38.00′/W090°17.00′ FOREST PARK N38°27.00′/W090°12.00′ COLLIMBIA N38°27.50′/W090°05.68′

V/D IMII

VPKNY

VPI FS

VPI IW

VPI XII

VPNSY

VPNIZV

VPRA7

VPRMO

VPWKO

VPXXI

VPYID

VPAIR

VPBEE

VPBRN

VPCAP

VPCHS

VPCOP

VPCWY

VPCYN

VPFPC

VPFPK

VPGFS

VPHVE

VPKSI

VPI GN

VPMDH

VPMMT

VPMSH VPNSI

VPNTP

VPOGE

VPOPS

VPPEN

VPPPT

VPPV0

VPRWY

VPSI C

VPTIP

VPWBR

VPWBT

VPAIR

VPBRN

VPCAP

VPCHS

VPCOP

VPCVI

VPCWY

VPCYN

VPFPC

VPFPK

VPGFS

MILLSTADT

MOSENTHEIN ISLAND SALTAIR SOUTH INTERCHANGE BARN

STATE CAPITOL

PARLEYS CANYON

FREE PORT CENTER

FRANCIS PEAK

KSI ANTENNA

GARFIELD STACK

SPAGHETTI BOWL

JORDAN RIVER TEMPLE

MCKAY DEE HOSPITAL

MICROWAVE TOWERS

GRAIN FI EVATOR

POWER STATION

PROMONTORY POINT

POINT OF THE MOUNTAIN

I-15/I-80 INTERCHANGE

SOUTH INTERCHANGE

BINGHAM COPPER MINE

CENTERVILLE INTERCHANGE

STATE PRISON

PROVO CANYON

WEBER CANYON

SOUTH TIP

CAUSEWAY

PARLEYS CANYON

FRANCIS PEAK

GARFIELD STACK

FREE PORT CENTER

LAGOON AMUSEMENT PARK

CALISEWAY

HORSESHOE LAKE

PACIFIC

ST CHARLES

GATEWAY ARCH

WOOD RIVER REFINERIES

SIX FLAGS

SALT LAKE CITY HELICOPTER CHART BINGHAM COPPER MINE

N40°44.85'/W112°11.22' N40°38.18'/W111°54.23' N40°54.28'/W112°10.15' N40°46.67'/W111°53.25' N40°42.28'/W112°05.92' N40°31.38'/W112°09.00'

N38°41.00′/W090°05.00′

N38°29.00'/W090°44.00'

N38°47.00′/W090°30.00′

N38°30.67'/W090°40.47'

N38°37.50′/W090°11.00′

N38°50.00'/W090°05.00'

N38°43.00′/W090°12.25′

N41°05.37'/W112°07.17'

N40°42.67'/W111°48.10'

N41°05.92'/W112°02.27'

N41°01.98'/W111°50.30'

N40°43.28'/W112°11.88'

N40°43.50'/W111°54.22'

N40°35.02'/W111°55.58'

397

N40°46.80'/W112°05.80' N40°59.08'/W111°53.57' N41°11.50'/W111°57.08' N40°48.50'/W111°53.37' N41°01.67'/W112°02.47'

N40°50.15'/W111°54.90' N41°03.57'/W112°14.23' N41°13.13'/W112°00.45' N41°20.38'/W112°02.78' N40°29.88'/W111°53.62' N41°12.28'/W112°25.73' N40°27.42′/W111°54.83′ N40°18.77'/W111°39.45'

N40°48.48'/W112°00.33' N40°45.83'/W111°54.85' N40°50.93'/W112°10.92'

N41°08.17'/W111°54.83' N40°38.00′/W112°03.33′

N40°44.85'/W112°11.22' N40°38.18'/W111°54.23'

N40°31.38'/W112°09.00'

N40°55.30'/W111°53.43'

N41°05.37'/W112°07.17'

N40°42.67'/W111°48.10'

N41°05.92'/W112°02.27'

N41°01.98'/W111°50.30'

N40°43.28'/W112°11.88'

N40°54.28'/W112°10.15' BARN N40°46.67'/W111°53.25' STATE CAPITOL N40°42.28'/W112°05.92'

EC. 23 SEP 2010 to 18 NOV 2010

SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VFR WAYPOINTS WAYPOINT IDENT COLLOCATED VER CHECKPOINT V/PHV/F SPAGHETTI BOWL VPIRT

KSL ANTENNA

JORDAN RIVER TEMPLE

LAGOON AMUSEMENT PARK

MCKAY DEE HOSPITAL VPMMT MICROWAVE TOWERS V/DM/SH VPNSI VPNTP

398

VPKSI

VPLGN

VPMDH

VPOGE

VPOPS

VPPEN

V/DDDT

VPPTM

VPPV0

VPRWY

V/PTIP

VPHOH

VPWRR

VPWRT

VPZ00

VPI DP

VPLSP

VPSBC

VPSRI

VPSRM

VPSCF

VPSCM

VPSFR

VPSI I

VPSMB

VPSMP VPSMS

VPSMV

VPSMW

VPSOP

VPSOT

VPSPL

VPSQS

VPSRT

VPSSM

VPSSV

VPSTP

VPKRG

VPAI T

VPANT

VPBBR

VPCAL

VPCRT

VPCOY

VPCQZ

VPCRL

VPCRY

POWER STATION STATE PRISON PROMONTORY POINT POINT OF THE MOUNTAIN PROVO CANYON

GRAIN ELEVATOR

SOUTH TIP WEBER CANYON

HOGLE ZOO

DANA POINT

SIGNAL PEAK

BARONA CASINO

BLACK MOUNTAIN

CRYSTAL PIER

IRON MOUNTAIN

LAKE JENNINGS

MOUNT SOLEDAD

MOUNT WOODSON

OTAY MESA PRISON

LOWER OTAY LAKE

POWER PLANT

SOUTH POINT LOMA

OUALCOMM STADIUM

DEL MAR RACE TRACK

SAN VICENTE ISLAND

KINGSBURY GRADE

ALTAMONT PASS

ANTIOCH BRIDGE

RENICIA BRIDGE

LAKE CHAROT

COYOTE HILLS

CAROUINEZ BRIDGE

CALAVERAS RESERVOIR

CRYSTAL SPRINGS CAUSEWAY

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SAN MIGUEL MOUNTAIN

TORREY PINES GOLF COURSE

SAN FRANCISCO SECTIONAL CHART

COWLES MOUNTAIN

SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

U OF U EVENTS CENTER

I-15/I-80 INTERCHANGE

N40°45.83′/W111°54.85

N40°50.93'/W112°10.92 N40°45.73'/W111°50.28 N41°08.17'/W111°54.83 N40°38.00′/W112°03.33

LOCATION

N40°43.50′/W111°54.22

N40°35.02′/W111°55.58

N40°46.80′/W112°05.80

N40°59.08'/W111°53.57

N41°11.50′/W111°57.08

N40°48.50′/W111°53.37

N41°01.67'/W112°02.47 N40°50.15'/W111°54.90

N41°03.57'/W112°14.23

N41°13.13'/W112°00.45

N41°20.38'/W112°02.78

N40°29.88'/W111°53.62

N41°12.28'/W112°25.73

N40°27.42′/W111°54.83

N40°18.77'/W111°39.45

N40°48.48'/W112°00.33

N40°45.00′/W111°48.95 N33°27.62'/W117°42.87 N33°36.33'/W117°48.63

N33°14.15'/W117°26.63 N32°56.25'/W116°52.60 N33°05.18'/W117°18.55

N32°58.87'/W117°07.00 N32°48.55'/W117°09.17 N32°48.72'/W117°01.97 N32°47.77'/W117°15.42 N32°39.37'/W117°07.30 N32°58.25'/W116°57.33 N32°51.53'/W116°53.28 N32°45.57'/W117°12.22 N33°22.70′/W117°36.75 N32°50.40′/W117°15.10 N32°45.75'/W117°09.80 N33°00.52'/W116°58.23

N32°35.82'/W116°55.28 N32°37.73′/W116°55.38 N32°39.90′/W117°14.55

N33°08.25'/W117°20.23 N32°46.98'/W117°07.23 N32°58.58'/W117°15.95

N32°41.78'/W116°56.18 N32°55.53'/W116°55.00 N32°54.17'/W117°14.68 N33°11.48'/W117°16.38

N38°58.75'/W119°53.20

SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

N37°44.35'/W121°35.42 N38°01.45'/W121°45.02 N38°02.50'/W122°07.45 N37°28.16'/W121°48.93 N37°43.68'/W122°06.94 N37°32.50′/W122°05.06 N38°03.66'/W122°13.52

N37°11.00′/W121°41.06

N37°30.56′/W122°21.10

VFR WAYPOINTS WAYPOINT IDENT LOCATION COLLOCATED VER CHECKPOINT VPCSH N37°39.52'/W122°03.52' CAL STATE UNIVERSITY VPDAM N37°36.91'/W121°44.78' DEL VALLE DAM **VPDLR** N37°07.00′/W121°47.06′ **VPDUB** N37°42.06'/W121°55.36' DUBLIN **VPEMB** N37°26.05'/W121°53.83' EMBASSY SUITES **VPGGF** N37°53.07'/W122°18.71' **GOLDEN GATE FIELDS** V/PGII N37°01.37'/W121°33.99' GII ROY **VPHHH** N38°03.58'/W122°30.66' HAMII TON VPKGO N37°31.58'/W122°06.10' **VPLEX** N37°11.66′/W121°59.18′ LEXINGTON RESERVOIR VPMID N37°36.28'/W122°11.81' MID-SPAN SAN MATEO BRIDGE **VPMOR** N37°48.46'/W122°11.95' MORMON TEMPLE VPNUM N37°29.56'/W121°56.58' NIIMMI PLANT **VPPAC** N37°38.00′/W122°32.07′ VPPRII N37°17.33'/W121°56.01' **PRUNEYARD VPSAR** N37°15.26'/W122°02.33' SARATOGA VPSI A N37°24.75'/W122°14.35' SLAC/LINEAR ACCELERATOR **VPSTB** N37°54.45'/W122°40.41' STINSON BEACH VPSUN N37°34.85'/W121°53.23' SUNOL GOLF COURSE N37°13.93'/W121°41.35' VPLITC UTC **VPWAL** N37°53.78'/W122°04.30' WALNUT CREEK VPWAM N37°30.28'/W122°10.00' VPWFR N37°30.88'/W122°12.26' CEMENT PLANT TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART VPBOV N27°57.00′/W080°46.75′ **VPCNY** N28°30.00'/W080°45.00' **VPDAD** N28°22.57'/W082°11.25' DADE CITY VPDFI N29°00.17'/W081°20.85' VPDUT N27°37.70'/W082°09.10' **VPEAR** N27°58.67'/W082°49.83' CLEARWATER BEACH VPFFU N28°57.08'/W081°00.33' VPGPF N27°43.50'/W082°44.67' ST PETE BEACH **VPHUC** N28°19.87'/W082°43.77' VPKFR N28°04.00'/W081°56.00' LAKE PARKER VPI FV N28°48.00'/W080°52.00' N29°00.00'/W080°51.00' **VPLJA** WASHINGTON SECTIONAL CHART VPACE N38°07.82'/W076°48.75' VPAXI N38°34.57'/W076°20.38' **VPBRA** N36°13.75'/W076°08.08' VPGCE N36°03.90'/W076°36.42' **VPWZO** N36°00.87'/W075°40.07'

399

VOR RECEIVER CHECK

VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Informatio and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborn followed by figures (2300) or (1000–3000) indicating the altitudes above mean sea level at which the check shoul be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

ILLINOIS

VOR RECEIVER CHECKPOINTS

| Facility Name (Arpt Name) | Freq/Ident | Type
Check
Pt.
Gnd.
AB/ALT | Azimuth
from
Fac.
Mag | Dist.
from
Fac.
N.M. | Checkpoint Description |
|---------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------|---------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------|
| | | | | | |
| Centralia (Centralia Muni) | 115.0/ENL
110.0/CMI | A/2000
A/2000 | 027
177 | 6.1
7.8 | Over apch end Rwy 36. Over grain elevator at Pesotum. |
| Champaign (University of Illinois-Willard) Decatur (Decatur) | 110.0/CMI
117.2/DEC
109.8/GBG
112.3/JOT
112.3/JOT | G
A/1700
A/3000
A/2500
A/1500 | 332
348
237
331
102 | 0.9
5.4
12
15
6.5 | On runup pad Rwy 14L. Over apch end Rwy 36. Over railroad bridge. Over intersection of rwys. Over centerline of NW end |
| Lawrenceville (Lawrenceville-Vincennes | | | | | of Rwy 04–22. |
| Intl) | 108.8/LWV
110.4/MWA | G
A/1500 | 177
287 | .6
11 | South side of Echo.
Railroad intersection in
town of De Soto. |
| | 110.4/MWA | G | 139 | .5 | On parallel twy to Rwy 29. |
| Mattoon/Charleston (Coles Co Memorial) | 109.4/MTO | G | 066 | .7 | Runup pad Rwy 24. VOR |
| Moline (Quad City Intl) | 114.4/MZV | A/2000 | 034 | 9.8 | checkpoint unusable. Over intersection of Rwys 05–23, 09–27, 13–31. |
| Mount Vernon (Mount Vernon) | 113.8/VNN | G | 223 | 3.2 | At intersection of taxiways B and B2. |
| Peoria (Greater Peoria Rgnl) | 115.2/PIA | A/2000 | 100 | 4.9 | Over intersection Rwys
13–31 and 4–22. |
| Quincy (Quincy Rgnl–Baldwin Fld) | 113.6/UIN | G | 029 | 6.6 | On W side of terminal ramp. |
| Roberts | 116.8/RBS | A/2000 | 151 | 7.8 | Over grain elevator in
Paxton, IL. |
| Rockford (Chicago/Rockford Intl) | 110.8/RFD | G | 108 | 5.1 | Over intersection of twys A/B/D. |
| Samsville (Mount Carmel Muni) | 116.6/SAM | A/1500 | 063 | 18.4 | Over intersection of Rwys
04–22 and 13–31. |
| Troy (St Louis RgnI) | 116.0/TOY | A/1600 | 322 | 11 | Over intersection of N/S and NW/SE rwys. |
| Vandalia (Vandalia Muni) | 114.3/VLA | A/1700 | 177 | 5.8 | Over centerline at N end N/S rwy. |

VOR TEST FACILITIES (VOT)

| Facility Name | | Type VOT | |
|------------------|-------|----------|---------|
| (Airport Name) | Freq. | Facility | Remarks |
| Chicago (Midway) | 111.0 | G | |
| Chicago (O'Hare) | 112 0 | G | |

G

G

A/2500

G

A/2000

A/2000

Type VOT

Facility

G

G

Check

Ρt

Gnd

AB/ALT

G

G

G

A/2000

A/2500

G

A/2500

A/2300

G

G

A/2000

A/2000

A/2000

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VOR TEST FACILITIES (VOT)

MICHIGAN VOR RECEIVER CHECKPOINTS Dist

from Fac N.M.

12

Q

6

.6

5.8

0.7

13

7

Dist

from

Fac

N.M.

1.1

.9

1.0

11.3

14.5

10

13.5

.7

5.4

17.5

8.4

22.5

.6

242

206

181

328

056

300

Azimuth

from

Fac

Mag

203

249

063

096

002

077

231

077

167

058

328

272

166

Checkpoint Description

Over water twr in town of Fowler. On runup pad Rwy 17.

Over water tower S edge Jasper.

On taxiway A at AER 05.

On taxiway A-4 on runup area for Rwv 14.

Over intersection of E/W and NE/SW rwys.

Over intersection of E/W and N/S rwvs.

Remarks

Checkpoint Description

On runup for Rwy 01.

Approach end Rwy 6.

NS and EW highway intersection

SE corner of ramp.

Over smoke stack.

On twy to Rwy 35.

Over intersection of NS/EW expressway.

Over intersection of NW/SE and NE/SW rwys.

Over apch end Rwy 04.

S of Perkins.

Approach end Rwy 24.

Over microwave twr 1 NM

Over intersection of N/S

On Twy C; 500 E of apch end Rwy 06.

highway & E/W road 1 NM W of Wayland.

Runup Pad Rwy 04

Over intersection of highway and railroad.

401

VOR RECEIVER CHECKPOINTS Type

VOR RECEIVER CHECK

INDIANA

| | | Gna. | rac. | |
|---------------------------|------------------------|-------------|------------|--|
| Facility Name (Arpt Name) | Freq/Ident | AB/ALT | Mag | |
| Boiler (Purdue Univ) | 115.1/BVT | A/1800 | 286 | |
| Hoosier (Monroe County) | 110.2/00M
109.2/HNB | G
A/2500 | 349
010 | |

113.5/OKK

108.6/MZZ

114.4/MIE

114.4/MIE

113.3/PXV

115.3/TTH

Frea.

Freq/Ident

108.8/APN

116.1/ASP

116.1/ASP

109.4/BTL

110.8/ESC

109.2/GLR

115.95/GRR

112.8/CMX

109.0/AZO

110.8/LAN

111.2/LFD

115.2/MKG

114.0/ECK

1096

Kokomo (Kokomo Muni).....

Marion (Marion Muni)

Muncie (Delaware Co-Johnson Fld)

Pocket City (Evansville Rgnl).....

Terre Haute (Sky King)

Fort Wavne Intl

Indianapolis Intl.

Alpena (Alpena Co Rgnl)

Au Sable (Oscoda-Wurtsmith)

Battle Creek (W.K. Kellogg).....

Escanaba

Gaylord (Gaylord Rgnl)

Grand Rapids (Gerald R Ford Intl).....

Houghton (Houghton Co Meml).....

Kalamazoo (Kalamazoo/Battle Creek Intl) ..

Lansing (Capital Region Intl)

Litchfield

Muskegon (Muskegon County).....

Peck (St Clair County Intl)

Facility Name

(Airport Name)

Facility Name (Arpt Name)

Pt. from

Azimuth

Check

Springfield (Springfield-Beckley Muni)...... 113.2/SGH

| Facility Name (Arpt Name) | Freq/Ident | AB/ALT | Mag | N.M. | Checkpoint Description |
|------------------------------------|------------------------|----------------------------------------|--------------------------------|-------------------------------|-----------------------------------------------------------------------------------------|
| Pellston (Cheboygan City-County) | 111.8/PLN
111.8/PLN | A/2000
G | 084
241 | 6.4
6.4 | Over center of E/W rwy. At intersection of N/S and E/W twys. |
| Pontiac (Oakland Co Intl) | 111.0/PSI | G | 113 | 5.8 | On circle on warmup pad apch end Rwy 27L. |
| | 111.0/PSI | G | 120 | 5.0 | On circle on warmup pad apch end Rwy 09R. |
| Saginaw | 112.9/MBS | A/1700 | 058 | 6.7 | Over intersection US 10 and I-75. |
| V | OR TEST FA | ACILITIES | (VOT) | | |
| Facility Name | | Type VOT | | | |
| (Airport Name) | Freq. | Facility | | | Remarks |
| Detroit City | L11.6 | G | | | |
| • | 109.8 | Ğ | | | |
| | 0 | HIO | | | |
| VO | R RECEIVE | R CHECKI | POINTS | | |
| Facility Name (Airport Name) | Freq/Ident | Type
Check
Pt.
Gnd.
AB/ALT | Azimuth
from
Fac.
Mag | Dist.
from
Fac.
N.M. | Checkpoint Description |
| Buckeye (Port Bucyrus–Crawford Co) | 109.8/BUD | A/2500 | 027 | 10.5 | Over intersection E/W grass strip and Rwy 04–22. |
| Dryer (Loraine County Rgnl) | 113.6/DJB | G | 222 | 1.3 | At intersection of taxiway and ramp. |
| Jefferson (Ashtabula Co) | 115.2/JFN | G | 067 | 2.4 | On ramp. |
| Jefferson (Germack) | 115.2/JFN | A/2000 | 278 | 9.0 | At intersection of E/W interstate highway and N–S highway south of towr of Geneva Ohio. |
| Mansfield (Shelby Community) | 108.8/MFD | A/2000 | 277 | 4.8 | Over hangar NW corner of arpt. |
| Mansfield (Mansfield Lahm Rgnl) | 108.8/MFD | G | 134 | 4.7 | At intersection of taxiways |

Type Check

Pt.

Gnd.

Azimuth

from

Fac.

Dist.

from

Fac.

A and D.

of arpt.

of Rwy 22.

On NE taxiway abeam approach end Rwy 24.

Over water tank.

Over hangar on WSW side

On taxiway near apch end

1.2

24.2

5.5

.5

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G

A/1800

A/2000

G

111.4/ZZV

050

295

270

028

VOR RECEIVER CHECK 403 **VOR TEST FACILITIES (VOT)** Facility Name Type VOT (Airport Name) Frea. Facility Remarks Akron Canton Rgnl...... 110.6 G Cincinnati Muni Arpt Lunken Field....... 108.4 G Cleveland Hopkins Intl 110.4 G Columbus (Port Columbus Intl.) 111.0 Gor Within 10 NM radius of A/2300-5000 airport. Dayton (James M Cox Dayton Intl.)....... 111.0 Within a 10 NM radius of G or A/2500-4000 arpt. A/2500-4000 WISCONSIN VOR RECEIVER CHECKPOINTS Type Check Azimuth Dist. Pt from from Gnd. Fac. Fac. Facility Name (Arpt Name) AB/ALT N.M. Freq/Ident Mag Checkpoint Description Eau Claire (Chippewa Valley Rgnl)..... 112.9/EAU G 182 21 Center of ramp. Green Bay (Austin Straubel Intl) 115.5/GRB G 141 46 On Twy M1 at Rwy 18R apch end. A/1900 12.7 Janesville 114.3/JVL 287 Over water tower N of Brodhead. Janesville (Southern Wisconsin Rgnl) 114.3/JVL G 035 4.3 On taxiway A1. Kenosha (Sylvania)..... 109.2/ENW A/2100 353 Over N/S interstate 59 highway bridge over E/W highway N of arpt. G 356 1.0 Runup pad AER Rwy 18. Madison (Dane Co Rgnl/Truax Fld) 108.6/MSN 151 0.6 On NE corner air national guard ramp adjacent to taxiway D. Manitowoc (Manitowoc Co) SW corner of terminal 111.0/MTW G 196 0.5 ramp.

VOR TEST FACILITIES (VOT)

111.8/0SH

110.6/STE

110.6/STE

111.6/AUW

Frea.

G

G

A/2500

G

A/2800

A/2500

Type VOT Facility

G

282

173

257

022

222

220

0.6

0.7

0.5

4

12.1

0.6

5.5

7.6

On taxiway at Rwy 09 apch

On N/S taxiway abeam

At intersection of E-W

On taxiway at Rwy 03 apch

Over N/S railroad and E/W road in Rudolph.

Over intersection of N-S and E-W rwvs.

Over microwave tower E of

Remarks

taxiway at terminal.

From AER 21.

Slinger.

Milwaukee (Gen Mitchell Intl) 109.0

Stevens Point (Stevens Point Muni).....

Wausau (Central Wisconsin).....

Facility Name

(Airport Name)

PARACHUTE JUMPING AREAS

The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unles otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the location listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

- To qualify for charting, a jump area must meet the following criteria:
 - (1) Been in operation for at least 1 year.
- (2) Operate year round (at least on weekends).(3) Log 4,000 or more jumps each year.
- (a) Log 4,000 or more jumps each year.

| | DISTANCE AND RADIAL FROM | MAXIMUM | |
|--------------------------------------------------------------|---------------------------------------------|------------------|----------------------------------------------------------------------------------------|
| LOCATION | NEAREST VOR/VORTAC | ALTITUDE | REMARKS |
| | ILLINOIS | | |
| (c) Carmi Muni | | 9,500 AGL | 3 NM radius. SR-SS weekends. |
| Deer Grove | | 12,500 | 3 NM radius. SR-SS Year round |
| Greenville Arpt | 18 NM; 210°Vandalia | 13,500 | 3 NM radius. Weekends and
holidays, SR-1 hour after SS.
Kansas City Center 127.7 |
| (c) Hinckley Arpt | 22 NM; 308°Joliet | 14,500 AGL | 2 NM radius. Mon-Fri 0800 to 1 hour after SS, Sat-Sun 0700 to hour after SS. |
| (c) Minier, Illinois Valley Parachute Club | | | |
| Arpt | | 15,000 | Daily SR to 1 hour after SS. |
| (c) Ottawa, Skydive Chicago Arpt | 23.1 NM; 250° Joliet | 17,500 AGL | 2 NM radius. SR to 1 hour past SS. |
| (c) Rantoul National Aviation Center–Frank Elliott Fld | 16.5 NM; 019° Champaign | 13,500 | 2 NM radius. Daily 0600-2200. |
| Sterling | | 12,000 AGL | Year round SR-SS. 10 NM radiu |
| Tampico | | 12,500 | 1 NM radius. 1000-SS daily. |
| (c) Taylorville, Taylorville Muni | | 15,000 | 5 NM radius. SR-1 hr past SS. |
| (c) Vandalia, Vandalia Muni | 6.2 NM; 178° Vandalia | 15,000 | 5 NM radius. Fri, Sat, Sun and holidays, SR-½ hour past SS. Kansas City Center 124.3 |
| | INDIANA | | Railsas City Center 124.3 |
| (a) Augusta Tui Chaha Chambar Ga A | INDIANA | 44.500 | E NIM redice Mark West Ed. Co. |
| (c) Angola, Tri–State Steuben Co Arpt | | 14,500 | 5 NM radius, Mon, Wed, Fri, Sat
Sun 0900–SS. |
| Cloverdale, Swope Airstrip | | 12,500 | 5 NM radius. SR-SS daily. |
| (c) Connersville | | 13,500 | 5 NM radius. Daily SR-SS. |
| Crawfordsville, Crawfordsville Muni
(c) Flora. Flora Muni | | 15,000 | 3 NM radius. Fri–Sat–Sun SR–S
5 NM radius. Weekends and |
| (C) FIOTA, FIOTA MUIII | 22.4 NW; 272* KOKOMO | 13,000 | holidays, 0900–SS daily. Grissom APP CON 121.05 |
| Franklin Flying Fld | 17 NM; 220° Shelbyville | 13,500 | 5 NM radius. SR-SS daily. |
| (c) Goshen Muni | 10 NM; 090° Goshen | 14,500 AGL | 1 NM radius. Weds, Fri-Sat-Sur
SR-SS. South Bend Rgnl Tow |
| | | | 132.05 |
| (c) Greensburg Muni | | 12,000 AGL | 2 NM radius. 0900-2000 daily. |
| Hobart Sky Ranch Arpt | | 10,000 AGL | 2 NM radius. Weds, weekends 0800-SS. |
| Kingsbury | | 1,500 | 0.3 NM radius. Occasional use. |
| Mentone | | 12,500 | 3 NM radius. SR-SS daily. |
| Muncie, Horizon Fld | | 13,000 | Daily 0600-1900. |
| (c) Richmond, Richmond Muni | 0 NM; Richmond | 14,500 | 3 NM radius. SR-1 hour after SS-daily. |
| Veedersburg, Songer Arpt | 24 NM; 220°Boiler | 10,000 | 5 NM radius. Weekends and holidays, SR-SS. |
| | MICHIGAN | | - |
| (c) Allegan, Padgham Fld | | 10,700 | 2 NM radius. Daily SR-SS. |
| East Tawas, Iosco Co Arpt | 8 NM; 192° Au Sable | 15,000 | 5 NM radius. May-Oct SR-SS daily. |
| FowlervilleFremont Muni | 20 NM; 225° Flint
16.2 NM; 008° Muskegon | 12,000
12,000 | 5 NM radius. Apr-Oct 0800-SS. 3 NM radius. Apr-Oct Sat-Sun |
| Harbor Springs | 17 NM; 235° Pellston | 12,000 | SR-SS.
3 NM radius. May-Sep daily |

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SR-SS.

(c) Mount Pleasant Muni Arpt...... Ø NM; Mount Pleasant.....

(c) Saginaw, Saginaw Co H.W. Browne 11 NM; 125° Saginaw

(c) Pulaski, Carter Arpt...... 5 NM; 350°Green Bay......

Arpt.....

PARACHUTE JUMPING AREAS

17 000 5 NM radius, Apr-Oct daily SR-SS. 13.500 5 NM radius, Mon. Wed. Thur. Fri.

14.000

15.000

12.000

405

REMARKS

2 NM radius. Apr-Oct daily SR-SS.

2 NM radius. Apr-Nov daily SR-SS

5 NM radius. Apr-Oct daily 0900-SS.

2 NM radius. Jan-Dec daily 0900-SS.

and weekends SR-SS. 5 NM radius. Daily SR-SS. 13.500 AGL 8.500 5 NM radius, SR-SS weekend. 14,000 Daily. Radius 2 NM. ius. Daily SR-SS. ekends. ius. 0900-2300 n. 1600-2300 Wed-Fri. te/Milton J. Ferguson wer 119.75 us. Wed 0600-Sun ort Columbus Intl Tower 00 Sat. Sun. SS.

Daily SR-SS.

Daily SR-SS.

SS

5 NM SR-SS daily.

3 NM radius. Daily SR-1 hour past

| (c) bowing areen, boruner Arpt | | 14,000 | Dally, Raulus 2 MM. |
|---------------------------------------------|-----------------------------------|------------|-----------------------------------|
| (c) Celina, Lakefield Arpt | 26.5 NM; 298° Rosewood | 14,000 | 1 NM radius. Daily SR-SS. |
| Centerburg, Chapman Mem | 12 NM; 325°Appleton | 12,000 | SR-SS weekends. |
| (c) Chesapeake, Lawrence Co Airpark | 26 NM; 052° Newcombe | 11,000 | 1 NM radius. 0900-2300 |
| | | | Sat-Sun. 1600-2300 Wed-Fri. |
| | | | Tri-State/Milton J. Ferguson |
| | | | Field Tower 119.75 |
| (c) Circleville, Clark Dream Strip | 13 NM: 332° Yellow Bud | 17,500 | 2 NM radius. Wed 0600-Sun |
| (c) chairma, chairma ar cann can phiniminin | 10 1111, 002 1011011 244111111111 | 11,000 | 2400. Port Columbus Intl Tower |
| | | | 125.95 |
| Commercial Point | 32 NM· 233°Annleton | 10,000 | 0800-2100 Sat, Sun. |
| Findlay | | 12,500 AGL | Daily. |
| Fulton County Arpt | | 10,500 | Daily SR–SS. |
| (c) Garrettsville, Gates Arpt | | 13,500 AGL | SR-SS daily. |
| Grafton, Mole Arpt | | 12,500 | 0700–0930 daily. |
| Lebanon, Lebanon-Warren Co Arpt | | 14,500 AGL | 5 NM radius. Daily SR-SS. |
| Mansfield | | 3.000 | 3 NM radius. Tue-Fri 0800-2200. |
| | r min, 192 manonola minim | 0,000 | Unit training assemblies 1 |
| | | | weekend a month. |
| Ottawa, Putnam County Arpt | 10.0 NM: 209°Eindlay | 10,500 AGL | SR-2400. |
| (c) Petersburg | | 12,500 AGL | 2 NM radius, Mon-Fri 1700-SS, |
| (b) I otorsuurg | TOWN, 234 LIWOOD ORY | 12,500 AGE | weekends SR-SS. |
| (c) Rittman, Hilty Fld | 21 NM; 314° Briggs | 16,000 AGL | 5 NM radius. Daily 1 hour before |
| | | | SR-1 hour after SS. |
| Salem, Phillis Lakefront Arpt | 27 NM; 088°Briggs | 10,000 | Evening and weekends to SS |
| Stonelick Parachute Center | | 10,000 | SR-SS daily. |
| Sycamore | 25 NM; 285°Mansfield | 12,500 AGL | 1 NM radius. Daily SR-SS. |
| Van Wert County | 27.3 NM; 104° Fort Wayne | 10,000 | Weekdays 1600-SS, Weekends |
| | | | SR-SS |
| Vickery, Wrights Fld | 12 NM; 270°Sandusky | 10,000 AGL | SR-SS weekends. |
| (c) Xenia, Skydive Green County Inc | 32 NM; 129°Dayton | 12,500 AGL | Daily SR-2400. |
| | WISCONSIN | | |
| (c) Baldwin Arpt | | 15,000 AGL | Daily SR-1 hour past SS. |
| (c) Bristol, Winfield Arpt | | 12,500 AGL | SR-½ hour past SS. |
| (c) Chippewa Falls, Wissota Arpt | | 15,000 | 5 NM radius. Daily SR-1 hour past |
| , | , | , | SS. |
| (c) East Troy Muni Arpt | 20 NM: 190°Badger | 14,500 AGL | SR-½ hour past SS. |
| Edgerton, Jana Arpt | | 11,000 | 10 NM radius. Wed-Sun & |
| | , = -= | , | Holidays SR-SS. |
| (c) Fort Atkinson Muni | 25 NM: 247° Badger | 14,000 | 3 NM radius. Daily SR–SS. |
| Lake Delton | | 12,500 | Daily May 15-Sept 25. |
| (c) Lancaster Muni Arpt | | 13,500 AGL | 2 NM radius. Sat–Sun 0900–1 hr |
| | .,, | -, | past SS. Wed and Fri 1500-1 hr |
| | | | past SS. Wed and TH 1300-1 III |
| (c) Marshall, Mathaire Fld | 16 NM: 058°Madison | 12,500 AGL | SR-½ hour past SS. |
| (-) 0-blb | O NIM COCCO - LL L | 12,500 AGL | 511-72 Hour past 33. |

13,500 AGL

12,000 AGL

13.500

12,500 AGL

AERONAUTICAL CHART BULLETIN

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown —route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

CHICAGO HELICOPTER ROUTE CHART 5th Edition, 12 May 2005

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OBSTRUCTIONS
12 May 2005 - 7 Jul 2005 No Major Changes.
1 Sep 2005 Add obst 896' MSL (300' AGL) UC, 41°46'40"N, 87°49'16"W.
27 Oct 2005 - 5 Jul 2007 No Major Changes.
30 Aug 2007 Change group obst from 1780'MSL (1195'AGL) to 1973'MSL (1375'AGL)UC, 41°53'20"N,
25 Oct 2007 Change obst from 1130'MSL (335'AGL) to 1195'MSL (400'AGL), 41°36'01"N, 87°58'44"W.
20 Dec 2007 - 31 Jul 2008 No Major Changes.
25 Sep 2008 Add obst 968′MSL (370′AGL)ŬC, 41°34′40″N, 87°31′33″W. 20 Nov 2008 – 17 Dec 2009 No Major Changes.
11 Feb 2010 Add obst 2589'MSL (2000'AGL) UC, 41°53'24"N, 87°36'54"W.
8 Apr 2010 - 23 Sep 2010 NO Major Changes.
AIRPORTS
12 May 2005 - 7 Jul 2005 No Major Changes.
 Sep 2005 Delete MILL ROSE arpt, 42°04'38"N, 88°09'35"W.
27 Oct 2005 Delete DARIEN-WOODRIDGE FIRE DEPT heliport, 41° 45'15"N, 88°00'26"W.
22 Dec 2005 - 5 Jul 2007 No Major Changes.
30 Aug 2007 Change CTAF freq 123.05 to 122.9 at SCHAUMBURG MUNI HELISTOP heliport,
42°02′53″N, 88°03′09″W.
Delete ADDISON FIRE DEPARTMENT STATION 3 heliport, 41°55'48"N, 88°02'28"W.
25 Oct 2007 - 10 Apr 2008 No Major Changes.
5 Jun 2008 Delete LANDIS PLASTICS heli, 41°40'43"N, 87°45'45"W.
Delete CRYSTAL LAKE HOLIDAY INN heli, 42°13′14"N, 88°17′05"W.
Delete CLARK heli, 42°22'06"N, 87°59'30"W.
31 Jul 2008 - 20 Nov 2008 No Major Changes.
15 Jan 2009 Change CHICAGO O'HARE ATCT frequencies from 120.75(S), 126.9(N), 127.925 132.7 390.9 to 120.75 126.9 (CNTR TWR), 132.7 390.9 (CNTR TWR), 135.925 (N TWR), 41°58′51″N,
87°54′23″W
12 Mar 2009 No Major Changes.
7 May 2009 Delete SEARS MERCHANDISE GROUP heli, 42°04'35"N, 088°13'01"W.
Change CHICAGO O'HARE ATCT freq from 135.925(N TWR) to 128.15(N TWR), 41°58′51″N, 87°54′23″W. 2 Jul 2009 – 11 Feb 2010 No Major Changes.
8 Apr 2010 Delete LEFKOWITZ heli, 42°09'40"N, 87°59'10"W.
Delete SHERMAN heli, 42°03′16″N, 88°16′50″W.
3 Jun 2010 No Major Changes.
29 Jul 2010 Change CHICAGO O'HARE INTL ATCT freq from 390.9 to 348.0, 41°58'54"N, 87°54'24"W.
23 Sep 2010 Delete ROSE NR 2 arpt 42°04'08"N, 88°08'30"W.
Delete ROSE NR 3 arpt 41°48′45″N, 87°39′47″W.
Delete ROSE PACKING CO arpt 41°48'10"N, 87°45'58"W.
NAVAIDs
12 May 2005 - 23 Sep 2010 No Major Changes.
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12 May 2005 – 25 Sep 2008 No Major Changes. 20 Nov 2008 Change CHICAGO Class B freq from 128.45 to 133.625. 12 Mar 2009 – 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

12 May 2005 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

12 May 2005 - 23 Sep 2010 No Major Changes.

MISCELLANEOUS

12 May 2005 - 17 Dec 2009 No Major Changes.

11 Feb 2010 Change MEF 2⁵ to 2⁷ in quadrant 41°45′-42°00′N, 87°30′-87°45′W.

8 Apr 2010 - 23 Sep 2010 No Major Changes.

CHICAGO SECTIONAL 80th Edition, 6 May 2010

AIRPORTS

NAVAIDs

3 Jun 2010 No Major Changes.

SPECIAL USE AIRSPACE

MISCELLANEOUS

MILITARY TRAINING ROUTES

OBSTRUCTIONS 3 Jun 2010 Add windmill farm. 1242' is highest MSL UC, 40°51'29"N, 89°06'25"W.

Add obst 1464'MSL (305'AGL), 43°34'09"N, 90°39'20"W. Add obst 1116'MSL (260'AGL)UC, 43°53'29"N, 89°19'41"W

Add obst 1113'MSL (320'AGL)UC, 43°57'07"N, 89°12'45"W.

23 Sep 2010 Add obst 1020'MSL (360'AGL), 41°38'33"N, 86°59'53"W. Add obst 1262'MSL (259'AGL)UC, 42°14'09"N, 91°24'07"W.

Add obst 1328'MSL (318'AGL), 41°37'36"N, 85°10'36"W. Add obst 1045'MSL (258'AGL), 41°59'18"N, 89°27'38"W. Add obst 1375'MSL (398'AGL)UC, 41°51'42"N, 88°55'58"W.

Add obst 967'MSL (258'AGL)UC, 40°55'14"N, 89°16'50"W. Add obst 895'MSL (258'AGL)UC, 40°28'52"N, 90°18'21"W. Add obst 788'MSL (258'AGL)UC, 40°25'33"N, 89°47'18"W. Add obst 1632'MSL (350'AGL)UC, 44°03'08"N, 92°54'04"W. Add obst 1056'MSL (310'AGL), 42°35'02"N, 85°31'36"W. Add obst 1243'MSL (310'AGL), 42°36'56"N, 85°22'15"W.

29 Jul 2010 Delete REINKE arpt, 41°53′57"N, 89°10′13"W.

Delete HUNTER arpt, 40°58′52″N, 85°55′44″W Delete KLOPFENSTEIN arpt, 40°46'02"N, 86°55'15"W. Delete DEYOUNG arpt, 42°58'04"N, 85°57'42"W. Delete HARRINGTON arpt. 41°10′59″N. 86°56′01″W.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 Add obst 1549'MSL (265'AGL)UC, 43°39'58"N, 91°55'52"W. Add obst 1045'MSL (258'AGL)UC, 41°59'18"N, 89°27'38"W.

Add obst 1000'MSL (288'AGL)UC, 41°06'49"N, 91°51'52"W. Add obst 1135'MSL (255'AGL)UC, 41°58'18"N, 91°22'46"W. Add obst 1205'MSL (310'AGL)UC, 42°37'49"N, 85°11'57"W.

Add obst 1025'MSL (260'AGL)UC, 41°21'32"N, 90°34'50"W.

Change CHICAGO O'HARE INTL ATCT freq from 390.9 to 348.0, 41°58′54″N, 87°54′24″W. **23 Sep 2010** Delete GUTWEIN arpt, 40°54′43″N, 86°52′26″W.

3 Jun 2010 Change WOLF LAKE VOR to WEBSTER LAKE VOR, 41°14'49"N, 85°29'51"W.

3 Jun 2010 Revise CEDAR RAPIDS, IA Class E. That airspace within a 5 mile radius of the Eastern Iowa Airport. This Class E airspace area is effective during specific dates and times established in advance by

Airport/Facility Directory. 29 Jul 2010 - 23 Sep 2010 No Major Changes.

3 Jun 2010 - 23 Sep 2010 No Major Changes.

3 Jun 2010 - 23 Sep 2010 No Major Changes.

3 Jun 2010 - 23 Sep 2010 No Major Changes.

a Notice to Airmen. The effective date and time will thereafter be continuously published in the

CHICAGO TERMINAL AREA CHART 80th Edition, 6 May 2010

3 Jun 2010 - 23 Sep 2010 No Major Changes.

AERONAUTICAL CHART BULLETIN

3 Jun 2010 No Major Changes. **29 Jul 2010** Change CHICAGO O'HARE INTL ATCT freq from 390.9 to 348.0, 41°58′54″N, 87°54′24″W.

23 Sep 2010 No Major Changes. 3 Jun 2010 - 23 Sep 2010 No Major Changes.

AIRSPACE 3 Jun 2010 - 23 Sep 2010 No Major Changes.

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OBSTRUCTIONS

SPECIAL USE AIRSPACE 3 Jun 2010 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

3 Jun 2010 - 23 Sep 2010 No Major Changes. MISCELLANEOUS 3 Jun 2010 - 23 Sep 2010 No Major Changes.

CINCINNATI SECTIONAL

84th Edition. 1 Jul 2010

OBSTRUCTIONS 29 Jul 2010 Add obst 2206'MSL (310'AGL), 37°16'09"N, 82°55'58"W. Add obst 2556'MSL (304'AGL)UC, 38°57'53"N, 80°01'49"W.

Add obst 1190'MSL (317'AGL)UC, 39°06'36"N, 82°41'29"W. Change obst from 2110'MSL (260'AGL) to 2210'MSL (260'AGL), 36°23'13"N, 84°20'11"W. **23 Sep 2010** Add obst 1088'MSL (299'AGL), 38°48'58"N, 84°46'53"W. Add obst 1804'MSL (355'AGL), 37°27'37"N, 79°59'39"W.

Add obst 1393'MSL (285'AGL), 36°35'10"N, 80°08'07"W. Add obst 927'MSL (257'AGL)UC, 36°24'41"N, 79°02'46"W. Add obst 636'MSL (310'AGL), 36°24'11"N, 77°55'45"W. Add obst 2052'MSL (315'AGĹ), 36°49'13″N, 83°19'44″W. Add obst 647'MSL (400'AGL), 36°12'41″N, 78°04'09″W.

Add obst 1158'MSL (308'AGL)UC, 38°33'10"N, 82°23'38"W. Add obst 1342'MSL (355'AGL)UC, 39°20'19"N, 78°45'27"W. Add obst 1509'MSL (255'AGL)UC, 39°42'41"N, 80°07'17"W.

AIRPORTS
29 Jul 2010 No Major Changes. 23 Sep 2010 Delete abandoned arpt symbol, 39°09'00"N, 80°12'00"W. Delete abandoned arpt symbol, 37°06'00"N, 81°50'00"W.

Delete Kite arpt, 36°31'00"N, 82°44'00"W. Change RP 31 to RP * at GRANT CO arpt, 38°59'00"N, 79°08'00"W.
Delete RP 18 at GREATER PORTSMOUTH RGNL arpt, 38°50'25"N, 82°50'50"W.

NAVAIDs 29 Jul 2010 No Major Changes. 23 Sep 2010 Shutdown AZALEA PARK NDB, 38°00'36"N, 78°31'05"W.

Delete COGAN NDB, 39°05′11″N, 78°04′06″W. AIRSPACE

29 Jul 2010 No Major Changes. 23 Sep 2010 Revise Mount Airy, NC Class E: That airspace extending upward from 700 feet above the

surface within a 9-mile radius of the Mount Airy-Surry County Airport and within 3.9 miles each side of the 353° bearing from the airport extending from the 9-mile radius to 15.3 miles north of the Mount Airy-Surry County Airport. SPECIAL USE AIRSPACE

29 Jul 2010 - 23 Sep 2010 No Major Changes. MILITARY TRAINING ROUTES 29 Jul 2010 - 23 Sep 2010 No Major Changes.

MISCELLANEOUS 29 Jul 2010 - 23 Sep 2010 No Major Changes. AERONAUTICAL CHART BULLETIN

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DETROIT HELICOPTER ROUTE CHART 1st Edition, 4 Aug 2005

OBSTRUCTIONS

1 Sep 2005 No Major Changes.

27 Oct **2005** Add group obst 1009'MSL (388'AGL) UC, 42°03'58"N, 83° 23'40"W. **22 Dec 2005 – 12 Mar 2009** No Major Changes. **7 May 2009** Add obst 1293'MSL (330'AGL), 42°09'30"N, 84°01'31"W.

2 Jul 2009 - 8 Apr 2010 No Major Changes.

3 Jun 2010 Add windmill farm. 1020' is highest MSL, 42°00'42"N, 82°56'42"W. Add obst 1408'MSL (430'AGL) UC, 42°21'20"N, 84°01'28"W.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

AIRPORTS 1 Sep 2005 Add SELFRIDGE ANGB ATCT 340.7, 42°36'46"N, 82°49'54"W.

27 Oct 2005 Delete HYNES arpt, 42°36'39"N, 83°43'58"W.

22 Dec 2005 - 8 Jun 2006 No Major Changes.

3 Aug 2006 Delete CTAF free, 122.9 at SALINE arpt., 42°08′47″N, 83°47′31″W.
 8 Sep 2006 – 10 May 2007 No Major Changes.
 5 Jul 2007 Delete CARRIAGE LANE arpt, 42°27′52″N, 84°02′05″W.
 30 Aug 2007 – 14 Feb 2008 No Major Changes.
 10 Apr 2008 Delete FULLER heliport,42°33′34″N, 83°10′40″W.

5 Jun 2008 - 31 Jul 2008 No Major Changes.

25 Sep 2008 Add SELFRIDGE ANGB ATCT freq 225.4, 42°36′30″N, 82°50′07″W. 20 Nov 2008 – 7 May 2009 No Major Changes.

2 Jul 2009 Delete INDEPENDENCE GREEN heliport, 42°28'12"N, 83°25'09"W. Delete COBO HALL

heliport, 42°19′33″N, 83°02′52″W.

neliport, 42 19 33 N, 03 04 32 W.
27 Aug 2009 - 17 Dec 2009 No Major Changes.
11 Feb 2010 Delete TECUMSEH arpt, 42°01′59″N, 83°52′37″W.
8 Apr 2010 - 29 Jul 2010 No Major Changes.
23 Sep 2010 Change DETROIT METRO WAYNE CO ATCT frequencies from 118.4(E), 135.0(W) & 287.1 to

118.4 (rwy 03R/21L), 128.125 (rwy 04L/22R), 135.0 (rwy 04R/22L) & 287.1 (rwys 04R/22L, 04L/22R & 03R/21L), 42°12′45″N, 83°21′12″W.

NAVAIDs 1 Sep 2005 - 13 Apr 2006 No Major Changes. 8 Jun 2006 Delete LAUREL NDB, 42°14′38″N, 83°02′51″W.

3 Aug 2006 - 23 Sep 2010 No Major Changes.

AIRSPACE 1 Sep 2005 - 15 Mar 2007 No Major Changes.

10 May 2007 Change DETROIT Class B freq from 124.9 to 127.5. 5 Jul 2007 - 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

1 Sep 2005 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

1 Sep 2005 - 23 Sep 2010 No Major Changes.

MISCELLANEOUS

1 Sep 2005 - 16 Feb 2006 No Major Changes. **13 Apr 2006** Change MEF 1¹ to 1² in quadrant $42^{\circ}00' - 42^{\circ}15'N$, $83^{\circ}15' - 83^{\circ}30'$ W.

8 Jun 2006 - 23 Sep 2010 No Major Changes.

| | AERONAUTICAL CHART BULLETIN | 411 |
|--------------------------------------------------------------------------|---------------------------------------------------------------|-----|
| | DETROIT SECTIONAL
81st Edition, 23 Sep 2010 | |
| OBSTRUCTIONS 23 Sep 2010 No Major Changes. | | |
| AIRPORTS
23 Sep 2010 No Major Changes. | | |
| NAVAIDs
23 Sep 2010 No Major Changes. | | |
| AIRSPACE
23 Sep 2010 No Major Changes. | | |
| SPECIAL USE AIRSPACE
23 Sep 2010 No Major Changes. | | |
| MILITARY TRAINING ROUTES 23 Sep 2010 No Major Changes. | | |
| MISCELLANEOUS
23 Sep 2010 Change MEF 2 ⁹ to 3 ^c | o in quadrant 41°30′00" - 42°00′00"N, 76°30′00" - 77°00′00"W. | |
| | DETROIT TERMINAL AREA CHART | |
| OBSTRUCTIONS | 74th Edition, 23 Sep 2010 | |
| 23 Sep 2010 No Major Changes. AIRPORTS | | |
| 23 Sep 2010 No Major Changes. NAVAIDs | | |
| 23 Sep 2010 No Major Changes. | | |
| AIRSPACE
23 Sep 2010 No Major Changes. | | |
| SPECIAL USE AIRSPACE
23 Sep 2010 No Major Changes. | | |
| MILITARY TRAINING ROUTES
23 Sep 2010 No Major Changes. | | |
| MISCELLANEOUS
23 Sep 2010 No Major Changes. | | |
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GREEN BAY SECTIONAL 80th Edition. 3 Jun 2010

OBSTRUCTIONS **3 Jun 2010** No Major Changes. **29 Jul 2010** Add obst 1531'MSL (310'AGL)UC, 46°31'08"N, 92°54'34"W.

Add obst 1942'MSL (250'AGL)UC, 46°09'40"N, 88°52'40"W. Add obst 1630'MSL (280'AGL), 46°47'26"N, 92°20'25"W.

Add obst 1590'MSL (320'AGL), 47°04'32"N, 92°45'07"W.

23 Sep 2010 Add obst 1650'MSL (280'AGL)UC, 46°23'09"N, 89°10'52"W. Add obst 1765'MSL (349'AGL), 47°24'22"N, 91°15'00"W.

Add obst 1223'MSL (305'AGL)UC, 46°31'56"N, 92°23'39"W. Add obst 1632'MSL (350'AGL)UC, 44°03'08"N, 92°54'04"W.

AIRPORTS

3 Jun 2010 - 29 Jul 2010 No Major Changes.

23 Sep 2010 Delete PIKE arpt. 47°39'07"N, 92°25'00"W.

NAVAIDs

3 Jun 2010 No Major Changes. 29 Jul 2010 Delete CUMBERLAND NDB, 45°30′33″N, 91°58′36″W. 23 Sep 2010 No Major Changes.

AIRSPACE 3 Jun 2010 - 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

3 Jun 2010 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

3 Jun 2010 - 23 Sep 2010 No Major Changes. MISCELLANEOUS

3 Jun 2010 - 23 Sep 2010 No Major Changes.

KANSAS CITY SECTIONAL 84th Edition. 3 Jun 2010

OBSTRUCTIONS 3 Jun 2010 No Major Changes.

AIRPORTS

29 Jul 2010 Add obst 1620'MSL (262'AGL)UC, 36°13'15"N, 93°08'16"W. Add obst 1067'MSL (265'AGL), 39°51'35"N, 93°12'24"W.

Add obst 1119'MSL (310'AGL), 39°59'44"N, 92°10'38"W. Add obst 1180'MSL (260'AGL), 37°58'22"N, 91°13'24"W.

Add obst 1334'MSL (425'AGL)UC, 38°53'11"N, 95°02'12"W. **23 Sep 2010** Add obst 941'MSL (278'AGL)UC, 39°23'30"N, 89°51'46"W.

Add obst 1244'MSL (404'AGL), 38°09'08"N, 93°39'44"W. Add obst 1382'MSL (310'AGL)UC, 39°11'25"N, 96°02'41"W.

Add obst 1279'MSL (260'AGL), 37°53'42"N, 92°05'34"W. Add obst 1050'MSL (215'AGL), 39°48'01"N, 92°23'59"W.

3 Jun 2010 No Major Changes.

29 Jul 2010 AIR PARK SOUTH arpt closed, 37°03′34″N, 93°14′03″W. **23 Sep 2010** Delete ARRAS arpt,39°20′17″N, 90°10′41″W.

NAVAIDs

3 Jun 2010 No Major Changes. **29 Jul 2010** Delete KENNETT NDB, 36°13′42″N, 90°02′21″W

23 Sep 2010 Shutdown PITTSBURG NDB,37°26'33"N, 94°43'36"W.

3 Jun 2010 - 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE 3 Jun 2010 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

3 Jun 2010 - 23 Sep 2010 No Major Changes.

MISCELLANEOUS 3 Jun 2010 - 23 Sep 2010 No Major Changes.

| AERONAUTICAL CHART BULLETIN | 413 |
|-------------------------------------------------------------------------|-----|
| LAKE HURON SECTIONAL
80th Edition, 23 Sep 2010 | |
| OBSTRUCTIONS 23 Sep 2010 No Major Changes. | |
| AIRPORTS 23 Sep 2010 No Major Changes. | |
| NAVAIDs
23 Sep 2010 No Major Changes. | |
| AIRSPACE
23 Sep 2010 No Major Changes. | |
| SPECIAL USE AIRSPACE
23 Sep 2010 No Major Changes. | |
| MILITARY TRAINING ROUTES 23 Sep 2010 No Major Changes. | |
| MISCELLANEOUS
23 Sep 2010 No Major Changes. | |
| MINNEAPOLIS-ST. PAUL TERMINAL AREA CHART
74th Edition, 1 Jul 2010 | |
| OBSTRUCTIONS
29 Jul 2010 – 23 Sep 2010 No Major Changes. | |
| AIRPORTS 29 Jul 2010 – 23 Sep 2010 No Major Changes. | |
| NAVAIDs 29 Jul 2010 – 23 Sep 2010 No Major Changes. | |
| AIRSPACE
29 Jul 2010 – 23 Sep 2010 No Major Changes. | |
| SPECIAL USE AIRSPACE
29 Jul 2010 – 23 Sep 2010 No Major Changes. | |
| MILITARY TRAINING ROUTES
29 Jul 2010 – 23 Sep 2010 No Major Changes. | |
| MISCELLANEOUS
29 Jul 2010 – 23 Sep 2010 No Major Changes. | |
| PITTSBURGH TERMINAL AREA CHART | |
| 74th Edition, 23 Sep 2010 | |
| OBSTRUCTIONS 23 Sep 2010 No Major Changes. | |
| AIRPORTS 23 Sep 2010 No Major Changes. | |
| NAVAIDs
23 Sep 2010 No Major Changes. | |
| AIRSPACE
23 Sep 2010 No Major Changes. | |
| SPECIAL USE AIRSPACE 23 Sep 2010 No Major Changes. | |
| MILITARY TRAINING ROUTES 23 Sep 2010 No Major Changes. | |
| MISCELLANEOUS
23 Sep 2010 No Major Changes. | |
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ST. LOUIS SECTIONAL 82nd Edition, 1 Jul 2010

OBSTRUCTIONS

29 Jul 2010 Add obst 1022'MSL (308'AGL)UC, 39°38'13"N, 87°04'56"W.

Add obst 883'MSL (383'AGL)UC, 37°21'47"N, 87°30'56"W.

Add obst 1386'MSL (255'AGL)UC, 37°10'17"N, 84°34'39"W. Add obst 990'MSL (258'AGL)UC, 39°53'39"N, 88°43'31"W. Add obst 848'MSL (260'AGL)UC, 38°50'53"N, 90°47'56"W.

23 Sep 2010 Add obst 1088'MSL (299'AGL), 38°48'58"N, 84°46'53"W. Add obst 941'MSL (278'AGL)UC, 39°23'29"N, 89°51'46"W.

Add obst 876'MSL (258'AGL)UC, 39°32'44"N, 89°09'24"W.

Add obst 1109'MSL (310'AGL)UC, 38°50'24"N, 85°29'50"W. Add obst 835'MSL (290'AGL)UC, 36°34'39"N, 87°08'32"W.

Add obst 2115'MSL (265'AGL)UC, 36°08'04"N, 85°04'08"W. Add obst 972'MSL (255'AGL), 37°42'39"N, 86°31'35"W.

Add obst 1049'MSL (255'AGL), 37°06'16"N, 85°26'55"W.

AIRPORTS 29 Jul 2010 Change CTAF 122.9 to 122.8 at CYNTHIANA-HARRISON CO arpt 38°21′58″N, 89°24′20″W. 23 Sep 2010 Delete CAREFERRE ACRES arpt, 39°10′59″N, 87°07′34″W.

Delete ARRAS RLA arpt, 39°20′17″N, 90°10′41″W. Change CTAF 122.8 to 123.05 at ALEXANDRIA arpt. 40°13'57"N. 85°38'15"W.

Change CTAF 122.8 to 122.9 at CYNTHIANA-HARRISON CO arpt, 38°21'58"N, 84°17'00"W.

NAVAIDs 29 Jul 2010 Delete DYERSBURG NDB, 35°59'42"N, 89°24'20"W. **23 Sep 2010** Delete NORTH VERNON NDB, 39°02'59"N, 85°36'03"W.

Delete GENEVA NDB. 37°48'11"N. 87°46'14"W.

AIRSPACE

29 Jul 2010 Revise MARION, IL Class E: That airspace extending upward from 700 feet above the surface bounded by a line beginning at lat. 37°53'40" N., long. 88°48'35" W.; to lat. 37°56'25" N., long. 89°02'40" W.; to lat. 37°58'45" N., long. 89°20'25" W.; to lat. 37°47'25" N., long. 89°26'00" W.; to lat. 37°40'40" N., long. 89°20'17" W.; to lat. 37°34'56" N., long. 89°20'25" W.; to lat. 37°34'48" N., long. 89°10'21" W.; to lat. 37°37'05" N., long. 89°10'18" N., long. 89°10'18" W.; to lat. 37°37'05" N., long. 89°10'18" N., long. 89°10'18" N., long. 89°10'18" N., long. 89

37°32′50″ N., long. 88°59′00″ W.; to lat. 37°42′35″ N., long. 88°52′15″ W.; to the point of beginning. Revise MANILA, AR Class E: That airspace extending upward from 700 feet above the surface within a 6.4-mile radius of Manila Municipal Airport.

23 Sep 2010 No Major Changes. SPECIAL USE AIRSPACE

29 Jul 2010 No Major Changes.

23 Sep 2010 Add SULLIVAN, IN. Restricted Area, R-3405. Beginning at 39°07′41″N, 87°22′02″W; to 39°07′41″N, 87°21′29″W; to 39°07′39″N, 87°21′29″W; to 39°07′39″N, 87°21′26″W; to 39°07′41″N, 87°21′12″W; to 39°07′00″N, 87°21′26″W; to 39°07′41″N, 87°21′42″W; to 39°07′41″N, 87°21′42″W; to 39°07′00″N, 87°21′40″W; to 39°07′41″N, 87°21′40″W; to 39°07′40″N, 87°21′40″W; to 39°07

Controlling Agency, FAA, Terre Haute ATCT. Revise CRANE, IN. Restricted Area R-3404. That airspace within a 1 NM radius of 38°49'30"N,

86°50'08"W. Designated altitudes. Surface to and including 4,100 feet MSL. Time of designation. Sunrise to sunset, daily from May 1 through and including November 1. Other times by NOTAM 24 hours in advance. Controlling agency. FAA, Terre Haute ATCT.

MILITARY TRAINING ROUTES 29 Jul 2010 - 23 Sep 2010 No Major Changes. MISCELLANEOUS 29 Jul 2010 - 23 Sep 2010 No Major Changes.

74th Edition. 1 Jul 2010

ST. LOUIS TERMINAL AREA CHART

29 Jul 2010 Add obst 848'MSL (260'AGL)UC, 38°50'53"N, 90°47'56"W. 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

TWIN CITIES SECTIONAL

80th Edition, 1 Jul 2010

29 Jul 2010 Add obst 1765'MSL (420'AGL), 45°57'52"N, 95°03'42"W.

Add obst 1709'MSL (320'AGL), 46°18'32'N, 95°30'00'W. Add obst 1682'MSL (320'AGL), 47°26'32'N, 93°50'09'W. Add obst 1693'MSL (320'AGL), 47°03'17"N, 94°26'03"W. Add obst 1789'MSL (320'AGL), 46°56'58"N, 94°50'44"W. Add obst 1590'MSL (320'AGL), 47°04'32"N, 92°45'07"W.

23 Sep 2010 Add obst 1458'MSL (265'AGL), 45°44'03"N, 93°56'21"W. Add obst 1547'MSL (325'AGL)UC, 46°04'28"N, 94°28'29"W. Add obst 1418'MSL (350'AGL)UC, 45°34'32"N, 93°55'25"W. Add obst 1840'MSL (350'AGL)UC, 46°55'20"N, 93°55'18"W.

Add obst 1658'MSL (320'AGL), 46°24'12"N, 95°32'24"W. Add windmill farm. 1910' is highest MSL, 47°19'09"N, 97°55'56"W.

Add obst 1389'MSL (350'AGL)UC, 44°49'58"N, 94°16'51"W. Add obst 1578'MSL (300'AGL)UC, 46°59'58"N, 93°02'38"W. Add obst 1805'MSL (305'AGL)UC, 46°56'11"N, 95°13'26"W. Add obst 1668'MSL (250'AGL)UC, 46°15'20"N, 95°04'21"W. Add obst 1531'MSL (255'AGL)UC, 45°20'30"N, 95°05'09"W.

Add obst 2118'MSL (420'AGL)UC, 47°10'06"N, 95°27'16"W. 29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

EC. 23 SEP 2010 to 18 NOV 2010

23 Sep 2010 Add PAYNESVILLE, MN Class E: That airspace extending upward from 700 feet above the surface within a 7.2-mile radius of Paynesville Municipal Airport.

AIRSPACE

29 Jul 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

MISCELLANEOUS

MILITARY TRAINING ROUTES

OBSTRUCTIONS

AIRPORTS

AIRSPACE

SPECIAL USE AIRSPACE

MISCELLANEOUS

OBSTRUCTIONS

MILITARY TRAINING ROUTES

AIRPORTS

SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private—use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

UNITED STATES

| FACILITY NAME | UNITED STATES | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------|
| Chicago App/Dep Con 133.1 285.6 Elaspar Indiatrial, MI (G7MT) Sait Lake Center App/Dep Con 126.85 305.2 L-10 Sait Lake Center App/Dep Con 126.85 305.2 L-10 ASOS 118.325 West Kentucky kirpark, KY (GKV3) L-16 Memphis Center App/Dep Con 133.65 292.15 West Kentucky kirpark, KY (GKV3) H-81, L-23 Contenter App/Dep Con 133.65 292.15 H-81, L-23 Contenter App/Dep Con 133.65 292.15 H-81, L-23 Contenter App/Dep Con 133.65 292.15 H-81, L-23 Contenter App/Dep Con 132.7 (Avbi on ground) 290.8 CMARDA CMART & PANEL Abhatsferd, BG (CYXX) H-18, L-12 ATIS 11.8 & (1500-07002‡) KISTORIA KI | FACILITY NAME | CHART & PANEL |
| Biasgow Industrial, MT (G7MT) | Frankfort, IL (LL4Ø) | L-28H |
| Salt Lake Center App/Dep Con 126.85 305.2 | Chicago App/Dep Con 133.1 285.6 | |
| STATE Academy Bullseye kar Airstrip, CO (CO99) | Glasgow Industrial, MT (Ø7MT) | H-1E, 2F, L-13D |
| MSSI S118.325 Memphis Center App/Dep Con 133.65 292.15 Memphis Center App/Dep Con 133.65 292.15 Memphis Center App/Dep Con 133.65 292.15 Memphis Center App/Dep Con 130.0-21002‡) Gnd Con 121.65 279.25 Memphis Center App/Dep Con 121.65 279.25 Memphis Center App/Dep Con 132.7 (Avbi on ground) 290.8 Tower 119.4 (Inner) 127.1.0 (Outer) 295.0 (1500-07002‡) Gnd Con 121.8 Memphis Center App/Dep Con 132.7 (Avbi on ground) 290.8 Tower 119.4 (Inner) 127.1.0 (Outer) 295.0 (1500-07002‡) Gnd Con 121.8 Memphis Center App/Dep Con 132.7 (Avbi on ground) 290.8 Memphis Center App/Dep Con 132.7 (Avbi on ground) 290.8 Memphis Center App/Dep Con 132.7 (Avbi on ground) 290.8 Memphis Center App/Dep Con 132.7 (Avbi on ground) 290.8 Memphis Center App/Dep Con 132.7 (Avbi on ground) 290.8 Memphis Center App/Dep Con 132.7 (Avbi on ground) 290.8 Memphis Center App/Dep Con 132.7 (Avbi on ground) 290.8 Memphis Center App/Dep Con 132.7 (Avbi on ground 290.8 Memphis Center App/Dep Con 132.7 (Avbi on ground 340.0 (Avbi 300.0 | Salt Lake Center App/Dep Con 126.85 305.2 | |
| West Kentucky Airpark, KY (5KY3) L-16 Memphis Center App/Dep Con 133.65 292.15 William P Ewins, Ft (196FA) H-8I, L-23C William P Ewins, Ft (196FA) Winster Panel Winster P | USAF Academy Bullseye Aux Airstrip, CO (CO9Ø) | L-10F |
| Memphis Center App/Dep Con 133.65 292.15 | | |
| William P Gwinn, FL (GPFA) | | L-16I |
| Gwinn Tower 120.4 279.25 (Mon-Fri 1300-21002‡) Gnd Con 121.65 279.25 CANADA CHART & PAMEL Abhotsford, BE (CYXX) | | |
| CANADA CHAPT & PAMEL | | H-8I, L-23C |
| ADDITION NAME CANADA CHART & PANEL | | |
| Abbotsford, BC (CYXX) | Gnd Con 121.65 279.25 | |
| Abbotsford, BC (CYXX) | CANADA | |
| Abbotsford, BC (CYXX) | | CHART & PANEL |
| ATIS 119.8 (1500-07002‡) Victoria TrmI App/Dep Con 132.7 (Avbl on ground) 290.8 Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-07002‡) Gnd Con 121.8 MF 119.4 295.0 (0700-15002‡) (Shape irregular to 4500') Amos/Magny, QC (CYEY) Montreal Center App/Dep Con 125.9 Atikokan Muni, QN (CYIB) MF 122.3 (5 MN to 4500' No ground station) Barrie-Orillia (Lake Simcoe RgnI), QN (CYLS) ANOS 122.55 (PV) Toronto Center App/Dep Con 124.025 Bar River, QN (CPE?) Toronto Center App/Dep Con 132.65 Batthurst, MB (CZBF) Moncton Center App/Dep Con 134.25 Boundary Bay, BC (CZBB) ATIS 125.5 (1500-07002‡) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500-07002‡) Gnd Con 124.3 MF 118.1 (10700-15002† to 2000'. Vancouver TrmI 125.2 above 2000'. Shape irregular to 2500'.) Brampton, QN (CNC3) Brampton, QN (CNC3) Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') Bratford, QN (CYFD) Toronto Center App/Dep Con 134.675 Brownt, 10 (CZBM) Montreal Center App/Dep Con 134.3 SM F 122.15 (5 NM to 3400') Burlington Airpark, QN (CZBA) Montreal Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Burlington Airpark, QN (CZBA) MF 122.1 (5 NM to 6500') Burlington Airpark, QN (CZBA) MF 122.1 (5 NM to 6500') Burlington Airpark, QN (CZBA) MF 122.1 (5 NM to 6500') Burlington Airpark, QN (CZBA) MF 122.1 (5 NM to 6500') Burlington Airpark, QN (CZBA) MF 122.1 (5 NM to 6500') Burlington Airpark, QN (CZBA) MF 122.1 (5 NM to 6500') Burlington Airpark, QN (CZBA) MF 122.1 (5 NM to 6500') Burlington Airpark, QN (CZBA) MF 122.1 (5 NM to 6500') Centralia/James T. Rid Muni, QN (CYCE) H-10C, L-300 Charlottelown, PE (CYYG) Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Bhatham-Kent, QN (CNZ3) H-10G, L-300 Charlottelown, PE (CYYG) Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') | | |
| Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8 Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-0700Z‡) Gnd Con 121.8 MF 119.4 (295.0 (10700-1500Z‡) (Shape irregular to 4500') AmosMagny, QC (CYEY) | | , |
| Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500–07002‡) Gnd Con 121.8 M H 119.4 295.0 (07700–15002‡) (Shape irregular to 4500') Amos/Magny, QC (CYEY) H-118 Montreal Center App/Dep Con 125.9 Alikokan Muni, DN (CYIB) L-141 MF 122.3 (5 NM to 4500' No ground station) Barrie-Orillia (Lake Simcee Rgnl), ON (CYLS) H-11B, L-31D AWOS 122.55 (Pvt) Toronto Center App/Dep Con 124.025 Bar River, ON (CPF2) L-31C Toronto Center App/Dep Con 132.65 Bathurst, MB (CZBF) L-32L Moncton Center App/Dep Con 134.25 Boundary Bay, BC (CZBB) H-18, L-1E ATIS 125.5 (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 128.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 128.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 128.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 128.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 128.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 128.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 128.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 128.1 (Inner) 127.6 (Outer) (Inner) 127 | | |
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| Amos/Magny, QC (CYEY) | | |
| Montreal Center App/Dep Con 125.9 Attikokan Muni, DN (CYTB) L-14 MF 122.3 (5 NM to 4500' No ground station) Sarrie-Orillia (Lake Simcoe Rgni), DN (CYLS) H-11B, L-31D AWOS 122.55 (PVt) Toronto Center App/Dep Con 124.025 L-31C Toronto Center App/Dep Con 132.65 Sathurst, NB (CZBF) L-32D Moncton Center App/Dep Con 134.25 Moncton Center App/Dep Con 134.25 Moncton Center App/Dep Con 134.25 Moncton Center App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500-07002‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500-07002‡) Gnd Con 124.3 MF 118.1 (Inner) 127.6 (Outer) (1500-07002‡) Moncton Center App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500-07002‡) Gnd Con 124.3 MF 118.1 (0700-15002† to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) Brampton, DN (CNCN3) L-31D Toronto Trml App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') L-31D Toronto Trml App/Dep Con 132.35 MF 122.15 (5 NM to 3400') L-32G Montreal Center App/Dep Con 134.675 Brownt, QC (CZBM) L-32G Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') Burlington Airpark, DN (CZBA) L-31D Toronto Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/Jamaers. Fld Muni, DN (CYCE) H-10G, 11B, L-31D Toronto Center App/Dep Con 135.30 H-10G, 11B, L-31D Toronto Center App/Dep Con 135.30 Montroal Center App/Dep Con 135.30 M-10G, 11B, L-31D Toronto Center App/Dep Con 135.30 M-10G, 11B, L-31D Toronto Center App/Dep Con 135.30 M-10G, 11B, L-31D Toronto Center App/Dep Con 135.30 M-10G, 11B, L-31D Montroal Center App/Dep Con 135.30 M-10G, 11B, L-31D Montroal Center App/Dep Con 135.30 M-10G, 11B, L-31D Montroal Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') M-10G, 11B, L-30G Montroal Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') M-10G, 11B, L-30G Montroal Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') M-10G, 11B, L-30G M-10G, 11B, L-30G M-10G, 11B, | | H-11B |
| Atikokan Muni, ON (CYIB) | | 115 |
| ## 122.3 (5 NM to 4500' No ground station) ## 122.3 (5 NM to 4500' No ground station) ## 118, L-31D ## 122.55 (Pvt) Toronto Center App/Dep Con 124.025 ## 122.55 (Pvt) Toronto Center App/Dep Con 132.65 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 ## 123.6 | | I –14I |
| Barrie-Orillia (Lake Simcoe Rgnl), NN (CYLS) | | 2 141 |
| AWOS 122.55 (Pvt) Toronto Center App/Dep Con 124.025 Bar River, ON (CPF2) Toronto Center App/Dep Con 132.65 Bathurst, NB (CZBF) L-32J Moncton Center App/Dep Con 134.25 Boundary Bay, BC (CZBB) H-1B, L-1E ATIS 125.5 (1500–0700Z‡) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (0700–1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) Brampton, ON (CNC3) Toronto Trml App/Dep Con 119.3 253.1 Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') Bramtford, ON (CYBC) Toronto Trml App/Dep Con 134.675 Bromont, QC (CZBM) Montreal Center App/Dep Con 133.35 MF 122.15 (5 NM to 3400') Burlington Airpark, ON (CZBA) Toronto Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fld Muni, ON (CYCE) Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) H-10G, L-30G Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham-Kent, ON (CNZ3) H-10G, L-30G Chatham-Kent, ON (CNZ3) H-10G, L-30G Chatham-Kent, ON (CNZ3) H-10G, L-30G | | H_11B I_31D |
| Toronto Center App/Dep Con 124.025 Bar River, NN (CPF2) L-310 | | 11 115, 2 015 |
| Bar River, ON (CPF2) Toronto Center App/Dep Con 132.65 Bathurst, NB (CZBF) Monoton Center App/Dep Con 134.25 Boundary Bay, BC (CZBB) ATIS 125.5 (1500-0700Z‡) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500-0700Z‡) Gnd Con 124.3 MF 118.1 (0700-1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) Brampton, ON (CNC3) Toronto Trml App/Dep Con 119.3 253.1 Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') Brantford, ON (CYFD) Toronto Trml App/Dep Con 134.675 Brockville-Thousand Islands Rgnl Tackaherry, ON (CNL3) Montreal Center App/Dep Con 134.675 Bromont, QC (CZBM) Montreal Center App/Dep Con 119.3 253.1 Castlegar/West Kootenay Rgnl, RC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fld Muni, ON (CYCE) Toronto Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham-Kent, ON (CNZ3) H-10G, L-30G Chatham-Kent, ON (CNZ3) H-10G, L-30G | * * | |
| Toronto Center App/Dep Con 132.65 Baturst, NB (CZBF) | | I_31C |
| Bathurst, NB (CZBF) L-32J Moncton Center App/Dep Con 134.25 | | 2 010 |
| Moncton Center App/Dep Con 134.25 | | L-321 |
| Boundary Bay, BC (CZBB) | | |
| ATIS 125.5 (1500–0700Z‡) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (0700–1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) Brampton, 0N (CNC3) Toronto Trml App/Dep Con 119.3 253.1 Brandton Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') Brantford, 0N (CYFD) Toronto Trml App/Dep Con 128.27 Brockville–Thousand Islands Rgnl Tackaberry, 0N (CNL3) Montreal Center App/Dep Con 134.675 Bromont, 0C (CZBM) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') Burlington Airpark, 0N (CZBA) Toronto Center App/Dep Con 139.3 253.1 Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fld Muni, 0N (CYCE) Toronto Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham–Kent, 0N (CNZ3) H–10G, L–30G | | H-1B. L-1E |
| Vancouver App/Dep Con 132.3 363.8 | | 15, 2 12 |
| Tower 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (0700–1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) Brampton, 0N (CNC3) Toronto Trml App/Dep Con 119.3 253.1 Brandon Muni, MB (CVBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') Brantford, 0N (CYFD) Toronto Trml App/Dep Con 128.27 Brockville–Thousand Islands Rgnl Tackaberry, 0N (CNL3) Montreal Center App/Dep Con 134.675 Bromont, QC (CZBM) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') Burlington Airpark, 0N (CZBA) Toronto Center App/Dep Con 119.3 253.1 Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fld Muni, 0N (CYCE) Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham–Kent, 0N (CNZ3) H–10G, L–30G | | |
| ### 118.1 (0700–1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) #### 118.1 (0700–1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) #### 125.2 above 2000'. Shape irregular to 2500'.) #### 125.3 above 2000'. Shape irregular to 2500'. #### 125.3 above 2000'. Shape irregular to 2500'.) #### 125.3 above 2000'. Shape irregular to 2500'. ##### 125.3 above 2000'. Shape irregular to 2500'. ##### 125.3 above 2000'. Shape irregular to 2500'. ################################## | | |
| Brampton, ON (CNC3) | | shape irregular to 2500') |
| Toronto Trml App/Dep Con 119.3 253.1 | | |
| Brandon Muni, MB (CYBR) | | |
| Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') Brantford, 0N (CYFD) Toronto Trml App/Dep Con 128.27 Brockville-Thousand Islands Rgnl Tackaberry, 0N (CNL3) Montreal Center App/Dep Con 134.675 Bromont, QC (CZBM) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') Burlington Airpark, 0N (CZBA) Toronto Center App/Dep Con 119.3 253.1 Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fld Muni, 0N (CYCE) Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham-Kent, 0N (CNZ3) H-10G, L-30G | | H-2H |
| MF 122.1 (5 NM to 4000') Brantford, 0N (CYFD) | | |
| Toronto Trml App/Dep Con 128.27 Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3) L-32G Montreal Center App/Dep Con 134.675 L-32G Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') Burlington Airpark, ON (CZBA) L-31D Toronto Center App/Dep Con 119.3 253.1 L-31D Castlegar/West Kootenay Rgnl, BC (CYCG) H-1C Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') H-10G, 11B, L-31D Toronto Center App/Dep Con 135.30 Toronto Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') M-11E, L-32J Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') H-10G, L-30G Chatham-Kent, ON (CNZ3) H-10G, L-30G | | |
| Toronto Trml App/Dep Con 128.27 Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3) L-32G Montreal Center App/Dep Con 134.675 L-32G Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') Burlington Airpark, ON (CZBA) L-31D Toronto Center App/Dep Con 119.3 253.1 L-31D Castlegar/West Kootenay Rgnl, BC (CYCG) H-1C Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') H-10G, 11B, L-31D Toronto Center App/Dep Con 135.30 Toronto Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') M-11E, L-32J Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') H-10G, L-30G Chatham-Kent, ON (CNZ3) H-10G, L-30G | Brantford, ON (CYFD) | L-31D |
| Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3) | | |
| Montreal Center App/Dep Con 134.675 | | L-32G |
| Bromont, QC (CZBM) | | |
| Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') | | L-32G |
| Toronto Center App/Dep Con 119.3 253.1 | | |
| Castlegar/West Kootenay Rgnl, BC (CYCG) H–1C Vancouver Center App/Dep Con 134.2 227.3 H–1C MF 122.1 (5 NM to 6500') H–10G, 11B, L–31D Centralia/James T. Fld Muni, 0N (CYCE) H–10G, 11B, L–31D Toronto Center App/Dep Con 135.30 H–11E, L–32J Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham–Kent, 0N (CNZ3) H–10G, L–30G | | L-31D |
| Castlegar/West Kootenay Rgnl, BC (CYCG) H–1C Vancouver Center App/Dep Con 134.2 227.3 H–1C MF 122.1 (5 NM to 6500') H–10G, 11B, L–31D Centralia/James T. Fld Muni, 0N (CYCE) H–10G, 11B, L–31D Toronto Center App/Dep Con 135.30 H–11E, L–32J Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham–Kent, 0N (CNZ3) H–10G, L–30G | Toronto Center App/Dep Con 119.3 253.1 | |
| Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fid Muni, ON (CYCE) Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) Monoton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham-Kent, ON (CNZ3) H–10G, L–30G | | H-1C |
| MF 122.1 (5 NM to 6500') Centralia/James T. Fld Muni, ON (CYCE) Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham–Kent, ON (CNZ3) H–10G, L–30G | | |
| Centralia/James T. Fld Muni, ON (CYCE) | | |
| Toronto Center App/Dep Con 135.30 H-11E, L-32J | | H-10G, 11B, L-31D |
| Charlottetown, PE (CYYG) H-11E, L-32J Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham-Kent, ON (CNZ3) H-10G, L-30G | | |
| Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham-Kent, ON (CNZ3) H-10G, L-30G | | H-11E, L-32J |
| Chatham-Kent, ON (CNZ3) H-10G, L-30G | | |
| | | H-10G, L-30G |
| | | |

| SUPPLEMENTAL COMMUNICATION REFERENCE | 41 |
|-----------------------------------------------------------------------------------------|-------------------|
| FACILITY NAME | CHART & PANEL |
| Collingwood, ON (CNY3) | H-11B, L-31D |
| Toronto Center App/Dep Con 124.02 | L-32G |
| Cornwall Rgnl, ON (CYCC) Boston Center App/Dep Con 135.25 377.1 | L-3∠u |
| Cranbrook/Canadian Rockies Intl, BC (CYXC) | H-1C |
| Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100') | |
| Debert, NS (CCQ3) | H-11E, L-32J |
| Halifax Trml App/Dep Con 119.2 Digby, NS (CYID) | L-32J |
| Moncton Center App/Dep Con 123.9 | L-023 |
| Downsview, ON (CYZD) | H-11B, L-31E |
| Toronto Center App/Dep Con 133.4 | |
| MF 126.2 (1300–2300Z‡, 3 NM to 1700′) | 1 2011 |
| Drummondville, QC (CSC3) Montreal Center App/Dep Con 132.35 | L-32H |
| Earlton (Timiskaming Rgnl), ON (CYXR) | H-11B |
| MF 122.0 (5 NM to 3800') | ·· = |
| AWOS 128.6 | |
| Elliot Lake Muni, ON (CYEL) | L-31C |
| Toronto Center App/Dep Con 135.4 | 1 141 |
| Fort Frances Muni, ON (CYAG) Minneapolis Center App/Dep Con 120.9 | L-14H |
| Fredericton Intl, NB (CYFC) | H-11E, L-32I |
| ATIS 127.55 (1045–0245Z‡, OT AWOS) | ** * |
| Moncton Center App/Dep Con 124.3 135.5 270.8 | |
| Tower 119.0 (1045–0245Z‡) Gnd Con 121.7 (1045–0245Z‡) | |
| MF 119.0 (0245-1045Z‡, 5 NM to 3500') Goderich, ON (CYGD) | H-11B, L-31D |
| Toronto Center App/Dep 135.3 266.3 | FITTE, L. OTE |
| Greenwood, NS (CYZX) | H-11E, L-32J |
| ATIS 128.85 244.3 (1100-0000Z‡) | |
| App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3 | |
| Gnd Con 133.75 289.4 Clnc Del 128.025 283.9 Crimchy Air Park (IN (CN78) | L-31E |
| Grimsby Air Park, ON (CNZ8) Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475 | L-OIL |
| Halifax/Shearwater, NS (CYAW) | H-11E, L-32J |
| ATIS 129.175 (Ltd hrs) | • |
| App/Dep Con 119.2 MF Shearwater Advisory 119.0 126.2 340.2 360.2 (Ltd hrs) | |
| Gnd Con 121.7 250.1 | U 44E L 221 |
| Halifax/Stanfield Intl, NS (CYHZ) ATIS 121.0 | H-11E, L-32J |
| Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 363.8 | |
| Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95 | |
| Apron Advisory 122.125 | |
| Hamilton, ON (CYHM) | H-10H, 11B, L-11B |
| ATIS 128.1
Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 | |
| Gnd Con 121.6 | |
| Kingston, ON (CYGK) | H-11C, L-31E, 32F |
| Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡) | |
| MF 122.5 (1115–0400Z‡ 5 NM to 3300') | |
| Kitchener/Waterloo, ON (CYKF) | H-11B, L-31D |
| ATIS 125.1 (1200–0400Z‡) Toronto Trml App/Dep Con 128.275 | |
| Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8 | |
| MF 126.0 (0400–1200Z‡ 5 NM to 4000') | |
| Lachute, QC (CSE4) | L-32G |
| Montreal Center App Con 124.65 132.85 268.3 | |
| Montreal Center Dep Con 132.85 268.3 | U 110 |
| La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5 | H-11C |
| Montreal Center App/Dep Con 134.5 Langley, BC (CYNJ) | L-1E |
| ATIS 124.5 (1630–0230Z, DT 1530–0330Z) | |
| Victoria Trml App/Dep Con 132.7 290.8 Tower 119.0 (1630–0230Z, | |
| DT 1530-0330Z) | |
| Gnd Con 121.9 MF 119.0 (0230–1630Z, DT 0330–1530Z 3 NM to 1900') | |
| | |

418 SUPPLEMENTAL COMMUNICATION REFERENCE FACILITY NAME CHART & PANEL Leamington, ON (CLM2) 1-30F Cleveland Center App/Dep Con 132.45 Lethbridge, AB (CYOL) H-1D ATIS 124.4 (1300-0545Z‡) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000') Lindsay, ON (CNF4) L-31E. L-32F Toronto Center App/Dep 134.25 Liverpool/South Shore Rgnl, NS (CYAU) 1-321 Moncton Center App/Dep Con 123.9 H-10G, 11B. London, ON (CYXU) ATIS 127.8 (1120-0345Z‡) L-30G. 31D Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9 MF 119.4 (0345-1120Z‡ 5 NM to 3000') L-31C Manitowaning/Manitoulin East Muni, ON (CYEM) Toronto Center App/Dep 135.4 260.9 Maniwaki, QC (CYMW) L-32G Montreal Center App/Dep Con 126.57 Mascouche, QC (CSK3) 1-32G MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-Iles and 1 NM around Lac Agile Mascouche arpt.) Medicine Hat, AB (CYXH) H-1D AWOS 124.875 (0345-1245Z±) MF 122.2 (1245-0345Z‡ 5 NM to 5400')

Midland/Huronia, ON (CYEE) L-31D Toronto Center App/Dep 124.025 Miramichi, NB (CYCH) H-11E, L-32J Moncton Center App/Dep Con 123.7 Moncton/Greater Moncton Intl. NB (CYOM) H-11E. L-32J ATIS 128 65 App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8

Apron Advisory 122.075 Mont-Laurier, QC (CSD4)

Montreal Center App/Dep Con 126.57 Montreal Intl (Mirabel), QC (CYMX) ΔTIS 125 7 Montreal Center App Con 124.65 132.85 268.3

Montreal Dep Con 132.85 268.3 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl. QC (CYUL) Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3

Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 (W-NW-NE) 268.3 VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9

Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z)

Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15

AWOS 124.575 Timmins Radio App/Dep Con 122.3

Muskoka, ON (CYQA)

ATIS 124.9 (1130-0330Z‡)

ATIS 125.675 (1130-0330Z‡) Toronto Trml App/Dep Con 133.4

2500') North Bay, ON (CYYB)

Oshawa, ON (CYOO)

MF 122.3 (5 NM to 3900')

Nanaimo, BC (CYCD)

Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')

Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000')

Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 291.8 1330-0530Z‡ (5 NM to

EC. 23 SEP 2010 to 18 NOV 2010

L-31E H-11B, L31D

L-32G

H-11C, 12K, L-32G

H-11C, 12K, L-32G

H-11C, L-32G

H-11B, L-31D

H-1B, L-1E

SUPPLEMENTAL COMMUNICATION REFERENCE **FACILITY NAME** CHART & PANEL Ottawa/Carp. ON (CYRP) L-31E, 32F ATIS 121.15 Ottawa Trml App/Dep Con 128.175 Ottawa/Gatineau, QC (CYND) H-11C, L-32G Ottawa Trml App/Dep Con 127.7 128.175 MF 122.3 (5 NM shape irregular to 2500') VFR Advisory Ottawa Trml 127.7 Ottawa/MacDonald-Cartier Intl, ON (CYOW) ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 (VFR South) 120.1 (VFR North) 118.8 341.3 Gnd Con 121.9 Clnc Del 119.4 Ottawa Dep Con 128.175 Owen Sound/Billy Bishop Rgnl, ON (CYOS) L-31D Toronto Center App/Dep 132.575 290.6 L-30F Pelee Island, ON (CYPT) Cleveland Center App/Dep Con 126.35 360.0 H-11C, L-31E, 32F Pembroke, ON (CYTA) Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z‡, OT PPR) Penticton, BC (CYYF) Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100') Peterborough, ON (CYPQ) AWOS 126.925 Toronto Center App/Dep 134.25 Pincher Creek, AB (CZPC) Edmonton Center App/Dep Con 132.75 265.2 Pitt Meadows, BC (CYPK) ATIS 125.0 (1500-0700Z‡) Vancouver Center App Con 128.6 352.7 (Outer) Pitt Tower 126.3 (1500-0700Z‡) Gnd Con 123.8 Vancouver Center Dep Con 132.3 363.8 (South) MF 126.3 (0700-1500Z‡) (3NM to 2500') Quebec/Jean Lesage Intl, QC (CYQB) H-11D, L-32H ATIS 134 6 Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8

419

H-11D

H-11B

H-11E, L-32J

H-2K, L-31B

H-11D, L-32H

L-31E. 32F

H-2H

H-10G, 11B, L-30F

H-1R H-11B, L-31E, 32F

H-1D L-1E

Tower 118 65 236 6 Gnd Con 121.9 250.0

Riviere Du Loup, QC (CYRI) AWOS 122.025 (Pvt)

Rouyn Noranda, QC (CYUY)

AWOS 119.125

Sherbrooke, QC (CYAM)

South Renfrew Muni. ON (CNP3)

Gnd Con 121.7 275.8

Montreal Center App/Dep 124.275

AWOS 126.25

Southport, MB (CYPG)

Sault Ste Marie, ON (CYAM)

Sarnia (Chris Hadfield), ON (CYZR)

ATIS 133.05 (1300-0100Z‡)

Montreal Center App/Dep Con 125.1 299.6

Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')

Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000') Saint John, NB (CYSJ)

Toronto Center App/Dep Con 134.375

Toronto Center App/Dep Con 132.65 344.5

Tower 118.8 (1300-0100Z‡) Gnd Con 121.7 (1300-0100Z‡) MF 118.8 (0100-1300Z‡ 5 NM irregular shape to 3000')

ATIS 120.85 (Mon-Fri 1400-2300Z‡ except holidays) Tower 126.2 384.2 (Mon-Fri 1400-2300Z‡ except holidays)

Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')

420 SUPPLEMENTAL COMMUNICATION REFERENCE

| CILITY NAME | CHART & PA |
|----------------------------------------------------------------------------|-----------------|
| Springwater Barrie Airpark, ON (CNA3) | L-3 |
| Toronto Center App/Dep Con 124.025 | |
| St. Catherines/Niagara District, ON (CYSN) | H-10H, 11B, L-3 |
| ATIS 128.525 (1215-0200Z‡) | |
| Toronto Trml App/Dep Con 133.4 253.1 | |
| MF 123.25 (1215–0200Z‡ 5 NM to 3300′) | |
| St Frederic, QC (CSZ4) | L-3 |
| Montreal Center App/Dep Con 135.025 270.9 | |
| St. Georges, QC (CYSG) | H-32H, L-1 |
| Montreal Center App/Dep Con 132.35 | |
| MF 122.15 (5 NM 3900' ASL) | |
| St. Jean, QC (CYJN) | L-3 |
| Montreal Center App/Dep Con 125.15 268.3 | |
| Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡) | |
| Gnd Con 121.7 | |
| Sudbury, ON (CYSB) | H-31B, 10G, L-3 |
| ATIS 127.4 | |
| Toronto Center App/Dep Con 135.5 | |
| MF 125.5 (7 NM to 4000') | |
| Summerside, PE (CYSU) | H-11E, L- |
| AWOS 122.55 (Pvt) | |
| Moncton Center App/Dep Con 124.4 384.8 | |
| Thunder Bay, ON (CYQT) | H-2J, L- |
| ATIS 128.8 (1100-0400Z‡) | |
| Winnipeg Center App/Dep Con 132.125 | |
| Tower 118.1 (1100-0400Z‡) Gnd Con 121.9 (1100-0400Z‡) | |
| App/Dep 119.2 MF 118.1 (0400-1100Z‡ 5 NM to 4000') | |
| Timmins/Victor M. Power, ON (CYTS) | H-3 |
| ATIS 124.95 (1000-0500Z‡) | |
| Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000') | |
| Toronto/Buttonville Muni, ON (CYKZ) | L=3 |
| ATIS 127.1 (1200–0400Z‡) | - ' |
| Toronto Trml App/Dep Con 133.4 | |
| Tower 124.8 119.9 (1200–0400Z‡) Gnd Con 121.8 (1200–0400Z‡) | |
| MF 124.8 (0400–1200Z‡ No gnd station. 5 NM shape irregular to below 2500') | |
| Toronto/Billy Bishop Toronto City Airport, ON (CYTZ) | L-: |
| ATIS 133.6 (1130–0400Z‡) | L |
| | |
| App/Dep Con 133.4 | |
| Tower 118.2 119.2 (1130–0400Z‡) Gnd Con 121.7 | II 44D I 4 |
| Toronto/Lester B Pearson Intl, ON (CYYZ) | H-11B, L-3 |
| ATIS 120.825 | |
| App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 | |
| Tower 118.35 118.7 Gnd Con 119.1 121.65 121.9 | |
| Cinc Del 121.3 (1200–0400Z‡) | |
| Trenton, ON (CYTR) | H-11C, L-31E, |
| ATIS 135.45 257.7 | |
| App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 | |
| Cinc Del 124.35 286.4 | |
| Trenton/Mountain View, ON (CPZ3) | H-11C, L-31E, |
| Trenton Mil Advisory 268.0 | |
| Trois-Rivieres, QC (CYRQ) | H-11C, L- |
| Montreal Center App/Dep Con 128.225 229.2 | |
| MF 123.0 (5 NM to 3200') | |
| Val-D'or, QC (CYVO) | H-1 |
| Montreal Center App/Dep Con 125.9 308.3 | |
| MF 118.5 (1030-0325Z‡ 5 NM to 4000') | |

App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner)

Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Clnc Del 121.4

Dep Con 126.125 (north) 132.3 (south) 363.8

Vancouver Intl, BC (CYVR) ATIS 124.6 124.75 H-1B, L-1E

SUPPLEMENTAL COMMUNICATION REFERENCE **FACILITY NAME** CHART & PANEL Victoria Intl. BC (CYYJ) H-1B, L-1E ATIS 118.8 (1400-0800Z‡) App Con 125.95 Dep Con 133.85 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400-0800Z± OT ctc Kamloops 119.7) Cinc Del 126.4 (1400-0800Z‡) Victoriaville, QC (CSR3) L-32H Montreal Center App Con 132.35 Waterville/Kings Co Muni. NS (CCW3) L-32J Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3 Wiarton, ON (CYVV) H-11B. L-31D Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700') H-10G, L-8J Windsor, ON (CYQG) ATIS 134.5 (1130-0330Z‡) Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2 Tower 124.7 (1130-0330Z‡) Gnd Con 121.7 (1130-0330Z‡) MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000') VFR Advisory Detroit App Con 134.3 Yarmouth, NS (CYQI) H-11E, L-32I Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100') MEXICO **CHART & PANEL** Abraham Gonzalez Intl (MMCS) H-4K, L-6F Juarez App Con 119.9 Juarez Tower 118.9 Del Norte Intl (MMAN) H-7B, L-20G ATIS 127.55 (1300-0300Z±) Monterrey App 119.75 120.4 Tower 118.6 Durango Intl (MMDO) H-7A ATIS 132.1 Tower 118.1 Durango Info 122.3 General Abelardo L Rodriguez Intl (MMTJ) H-4H, L-4H

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H-7B, L-20H

H-7B, L-20G

H-4H, L-4J, 5A

H-7C, L-21A

H-7B, L-20G

L-61

H-7B

H-7A

FACILITY NAME

ATIS 127.9

Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Tijuana Clnc Del 122.35 Tiiuana Info 132.1 General Lucio Blanco Intl (MMRX)

Reynosa App Con 118.8 Reynosa Tower 118.8 General Mariano Escobedo Intl (MMMY)

Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9 General R Fierro Villalobos Intl (MMCU) ATIS 127.9

General Rodolfo Sanchez Taboada Intl (MMML)

Chihuahua App Con 121.0 Chihuahua Tower 118.4 ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3

General Servando Canales Intl (MMMA) Plan De Guadalupe Intl (MMIO)

Matamoros App Con 118.0 Matamoros Tower 118.0 Saltillo App Con 127.4 Saltillo Tower 118.4 Quetzalcoati Inti/Nuevo Laredo Inti (MMNL)

Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 Torreon Intl (MMTC) App Con 119.6 Tower 118.5

AIRPORT DIAGRAMS

In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city ar airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in groun taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedure Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current that the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

GENERAL INFORMATION

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

- 1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., 🚳, 👁 😥 2. Approach lighting systems that do not bear a system identification are indicated with a negative "①" beside the name
- A star (*) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., 📭 To activate lights use frequency indicated in the communication section of the chart with a $m{0}$ or the appropriate

lighting system identification e.g., UNICOM 122.8 0, 🚳, 💇

| KEY | MIKE |
|-----|------|
| | |

7 times within 5 seconds

5 times within 5 seconds 3 times within 5 seconds

FUNCTION

Highest intensity available

Medium or lower intensity (Lower REIL or REIL-off) Lowest intensity available (Lower REIL or REIL-off)

CHART CURRENCY INFORMATION

-Amdt 11A 99365 Date of latest change FAA procedure amendment number—

The Chart Date indentifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

MISCELLANEOUS

- Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- Indicates control tower temporarily closed UFN.

10210 IFGFND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

| Runways | | | |
|---------------------------------------------|----------------------------|-----------------------------------------------------------------------------|----------------------------|
| Hard
Surface | Other Than
Hard Surface | Stopways,Taxiwo
Parking Areas,
Water Runways | ys, Displaced
Threshold |
| × ×
Closed
Runway | ×××
Closed
Taxiway | Under Construction | Metal
Surface |
| e.g., BAI
not appli | <12, MA-1A etc | ific arresting gear
., shown on airpo
lots. Military Pilot
ations. | rt diagrams, |
| uni-di | irectional | bi-directional | Jet Barrier |
| REFERENC | E FEATURES | | |
| Tanks
Obstructio
Airport Be
Runway | nsacon # | | A |
| Radar Refl | ectors | | 👗 |

When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR. Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds

Hot Spot

Control Tower #.....

if any) but excluding areas designated as stopways. A D symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information.

Helicopter Alighting Areas (H) [H] (A) [H] Negative Symbols used to identify Copter Procedures landing point.....

Runway Threshold elevation.....THRE 123 Runway TDZ elevation.....TDZE 123 -0.3% DOWN

.....0.8% UP-

(shown when runway slope is greater than or equal to 0.3%) Runway Slope measured to midpoint on runways

8000 feet or longer. U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of

approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft. Approach light symbols are shown in the

Flight Information Handbook. Airport diagram scales are variable.

True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

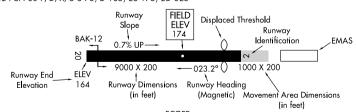
Positional accuracy within ±600 feet unless otherwise noted on the chart.

NOTE:

All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FLIP. (Foreign Only)

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCN 80 F/D/X/U S-75, D-185, 2S-175, 2D-325



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

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been reduced or eliminated.

CITY/AIRPORT

ALTON/ST. LOUIS ST. LOUIS RGNL (ALN)

CHAMPAIGN-URBANA

(CMI)

CHICAGO

CHICAGO

MIDWAY INTL (MDW)

UNIVERSITY OF ILLINOIS-WILLARD

CHICAGO-O'HARE INTL (ORD)

AIRPORT DIAGRAMS

HOT SPOTS

An "Airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or

runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations.

Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either

a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to:

HOT SPOT

HS 1

HS 2

HS₁

HS 2

HS 3

HS 1

HS₂

HS 3

HS 4

HS 5

HS 6

HS 7

HS 8

HS 9

HS 10

HS 11

HS₁

HS₂

HS 3

HS 4

HS 5

airport layout, traffic flow, airport marking, signage and lighting, situational awareness and training. Hot spots are depicted

SIONILII

DESCRIPTION

Twv C

the Twv A.

09R-27I

active rwys.

Rwy 27R thld.

terminal side

Rwv 09R-27L on Twv A1.

proximity to Rwy 09R-27L.

on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has

Twy C and Rwy 11, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering the

Twy A and Rwy 17-35, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering

Rwv 18 hold short line set back on Twv C.

Complex intersection of Twy A, Twy A1, Twy B, Twy C. and Twv D. Rwv 36 hold short lines on Twv B, and Twv B2 proximity to Twy B/Twy B2 intersection. Taxiing tfc on Twy R cannot stop on Twy R between

Rwy 09R-27L and Rwy 04L-22R. Rwv 27L arrivals prohibited from turning onto

Ldg Rwy 22R tfc must receive clearance to cross

Rwy 14L arrivals exiting Twy U5 use caution - close

Acft northwest bound on Twy U turning left onto Twy H use caution - close proximity to Rwy 09R-27L.

Acft turning left onto Twy K from Twy T10 use caution to avoid inadvertent turn onto Twy M.

Twy S5 - north bound tfc only exiting Rwy 04R.

Ldg Rwy 27R first avbl turn off is Twy C1 6500' for

Rwy 14R shortened, LDA 8650'. Use caution. Rwy 14R now ends north of active Rwv 10-28. Rwv 10-28 arrivals use caution, make no turns at this

Taxiing to Rwy O4L from Twy W. Note: dsplcd thld

Intersection of Rwy O4L and Twy F. Rwy O4L may be

Hold short line for Rwy 31L immediately after Twy F

Rwy 31R hold short line set back 200 feet on Twy Y

Intersection of Rwy 04R and Twy F. Rwy 04R may be active whenever Rwy 31C is also active.

Tfc inbound to the terminals from Twv G and Twy E can expect a right turn on Twy Z to avoid

intersection, unusable pavement.

and unique turn onto Rwy 04L.

and Twy K intersection, on Twy K.

active whenever Rwy 31C is also active.

Rwy 04L-22R without ATC clearance. Acft northeast bound on Twy B turning right onto Twv H use caution - close proximity to Rwy

AIRPORT DIAGRAMS

QUAD CITY INTL (MLI) SPRINGFIELD

EVANSVILLE

DETROIT

DETROIT

JACKSON

ΚΔΙ ΔΜΔΖΩΩ

(AZO)

WILLOW RUN (YIP)

JACKSON CO-REYNOLDS FLD (JXN)

KALAMAZOO/BATTLE CREEK INTL

DETROIT METROPOLITAN WAYNE CO (DTW)

ABRAHAM LINCOLN CAPITAL (SPI)

EVANSVILLE RGNL (EVV)

HS₁

HS₂ HS 3 HS 4

HS₁

HS 2

HS 3

HS 1

HS 2

HS₁

HS₂

HS₁

HS 2

HS 3

EC. 23 SEP 2010 to 18 NOV 2010

HS 1

HS₂

HS 3

HS 4

HS 5

HS₁

MICHIGAN

INDIANA

Ramp-use appropriate vigilance.

clearance.

No signage.

risk.

short of rwv.

short of rwy.

Pilots taxiing to Rwy 09 enter the rwy mid-field. Do not taxi to the "numbers" without ATC clearance. Rwv 09-27 is a short distance from the General Aviation Ramp-use appropriate vigilance. Pilots cleared to taxi to Rwv 27 sometimes enter Rwv 27 without a clearance. Rwy 18-36 in close proximity to General Aviation

Complex rwy/rwy intersection. ATC approval required to exit onto another rwy.

Twy tfc to hold short of Rwy 23/Rwy 23 apch.

Intersection of all rwys, wrong rwy departure risk.

NSTD Rwv 13-31 hold position, distance to edge of

Rwy 13-31 hold position at Twy H. Twy tfc to hold

Rwy 05-23 hold position at Twy L. Twy tfc to hold

When taxiing on Rwy 09L-27R, be prepared to hold at the holding position markings on the rwy.

Intersection of Rwy 09L-27R and Rwy 03L-21R. When taxiing on Rwy 09L-27R, be prepared to hold at the holding position markings on the rwy.

Twy F and Rwy 03L-21R - pilots taxiing on Twy F sometimes enter Rwy 03L-21R without a

Twy E1 to Rwy 27 or Rwy 23L wrong rwy departure

Complex intersection of Rwy 05, Twy A and Twy D.

Wrong rwy departure risk. Acft departing Rwy 05 car expect to hold short of Rwy 09 on Twy F.

Wrong rwy departure risk. Twy C hold short lines

Complex rwvs/twv intersection.

Caution confusing signage.

serve both Rwy 05 and Rwy 09.

Rwv 18-36 in close proximity to General Aviation Ramp-use appropriate vigilance.

Intersection of Rwy 09L-27R and Rwy 04R-22L.

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UHIU AKRON AKRON-CANTON RGNL (CAK) HS₁ ILS hold short line close proximity to transient parking ramp. HS 2 Twv C rwv holding position marking east of Rwv 01-19 used to hold acft for both Rwy 01-19 and Rwv 05-23 HS 3 Hold short lines on Twy K between Rwy 01-19 and Rwy 05-23 are nearly co-located. CINCINNATI CINCINNATI MUNI AIRPORT-LUNKEN Tfc on Twy C must receive ATC clearance to cross HS 1 FIELD (LUK) Rwy 03L apch area. HS 2 Twv A crosses Rwv 21R. Be prepared to hold short. HS 3 Departing acft on Rwy 21L can expect to hold short of Rwy 25 on Twy A. HS 4 Pedestrians and vehicles prohibited from departing terminal ramp area without ATC authorization. CLEVELAND CLEVELAND-HOPKINS INTL (CLE) HS₁ Complex intersection of Rwv 06R-24L and Twv S. HS₂ Complex intersection of Rwy 06R-24L and Twy R. Twv L.

COLUMBUS OHIO STATE UNIVERSITY (OSU)

PORT COLUMBUS INTL (CMH)

YOUNGSTOWN-WARREN

LA CROSSE MUNI (LSE)

GENERAL MITCHELL INTL (MKE)

COLUMBUS

JANESVILLE

LA CROSSE

MILWAUKEE

HS₁

HS₂ HS 3

HS A

HS 1

HS₂ HS 3 YOUNGSTOWN-WARREN RGNL (YNG) HS₁

HS₂

HS₁

HS₂

SOUTHERN WISCONSIN RGNL (JVL)

WISCONSIN

HS₁

HS₁

Payement widens out as the twy approaches the rwy and may cause confusion.

When holding short of Rwy 09R, acft must clear Rwy

Rwy 05 hold short line close proximity to west ramp

Wrong rwy departure risk: Rwy 32 is not visible from

Successive hold short lines on Twy A east of Twy D define Rwy 32 apch zone. Pilots confuse the apch hold markings with the Rwy 27L rwy holding

Acft taxiing to the full length of Rwy 28L along Twy C expect to turn left on Twy F and join Twy D.

Rwv 23 hold short line and signage on Twv H may be difficult to see when taxiing to Rwy 23 on Twy J.

Complex Twy K/Twy F intersection. Twy K crosses

Rwy 32 and Rwy 26 approach ends are closely aligned and may be confused when lining up for

Rwy 36 hold position set back on Twy F.

Pilots taxiing northbound on Twy E for an

intersection departure on Rwy 19R at Twy V can end up entering Rwy 07L-25R if they miss the right turn for Twy V. To avoid a rwy incursion, pilots on Twy E should use extreme caution approaching Rwy

Use caution in the area of Twy M and Rwy 01L-19R.

Acft exiting Rwy 10R at Twy G, complex intersection, acute angle to Terminal.

Area not visible from the twr.

Twv F to the terminal.

departure.

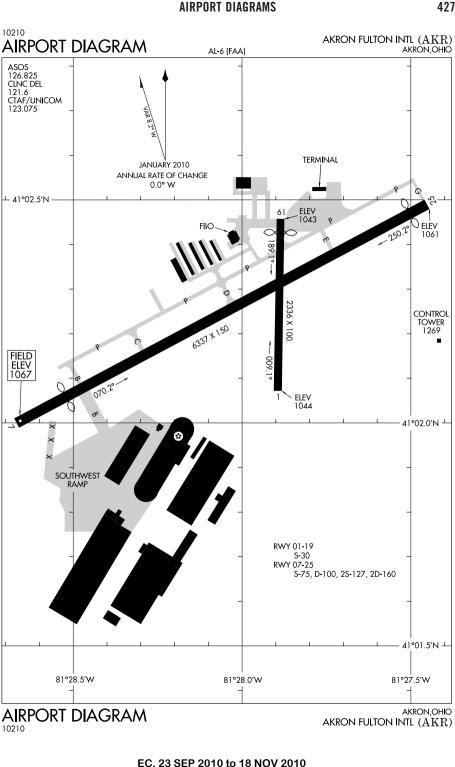
07L-25R.

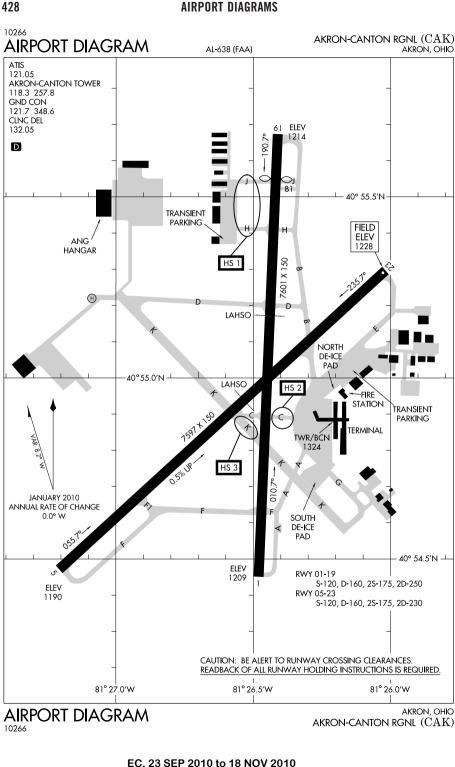
05 hold short line on Twy A, west of Rwy 05.

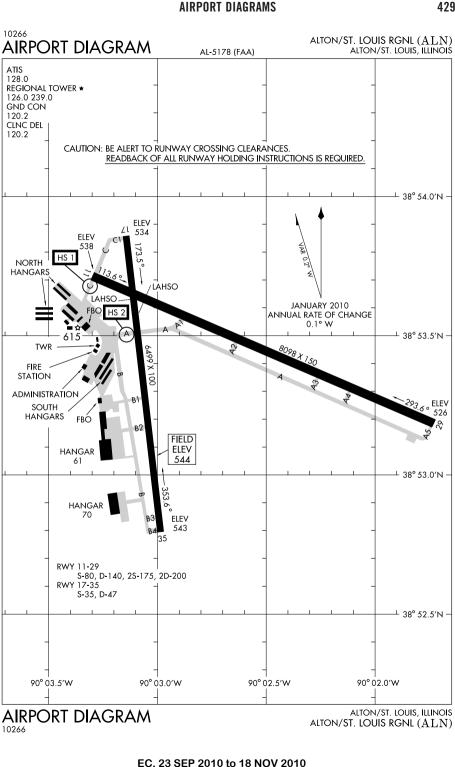
on Twv A.

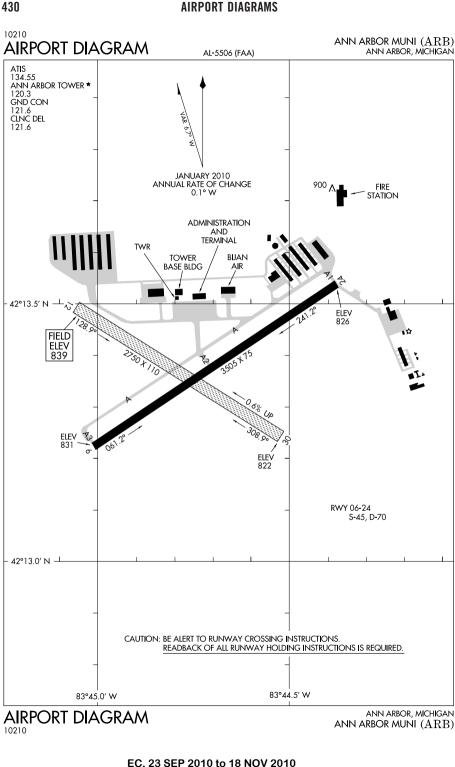
hold short lines on Twy D.

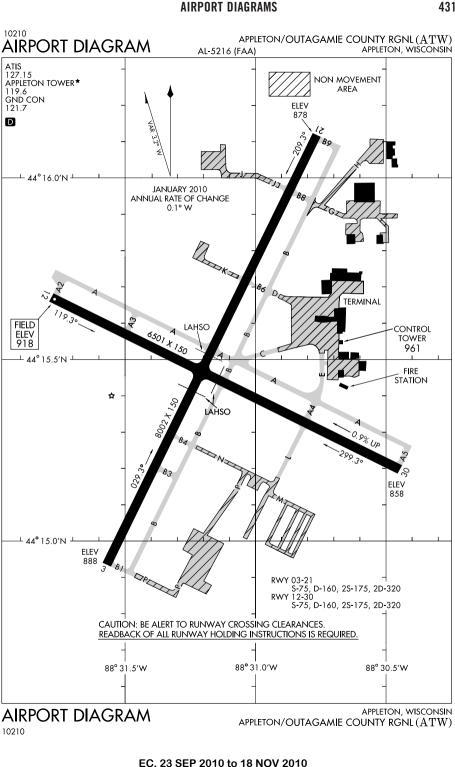
position markings.

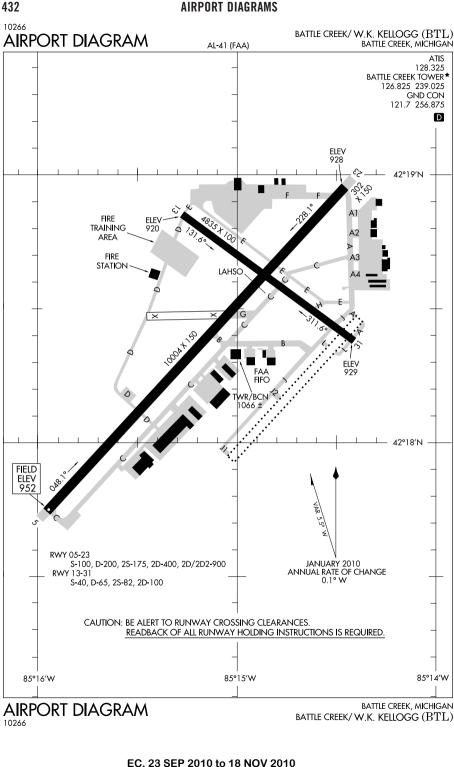


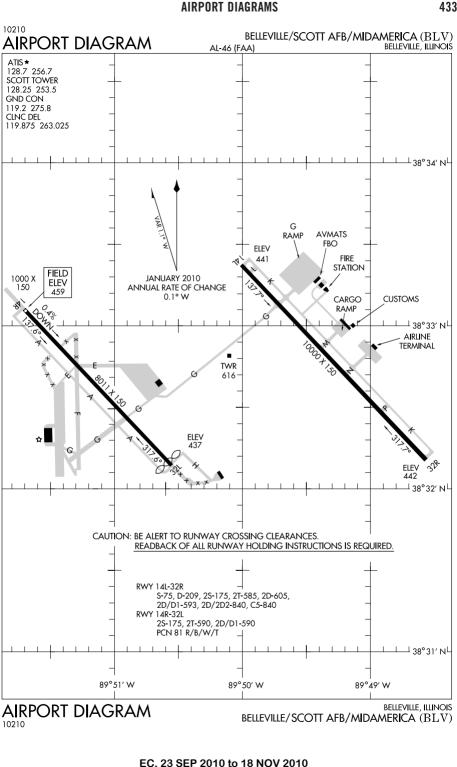


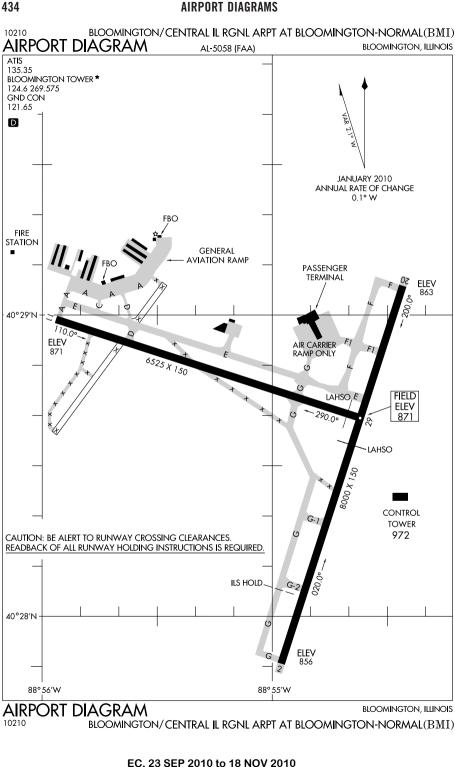


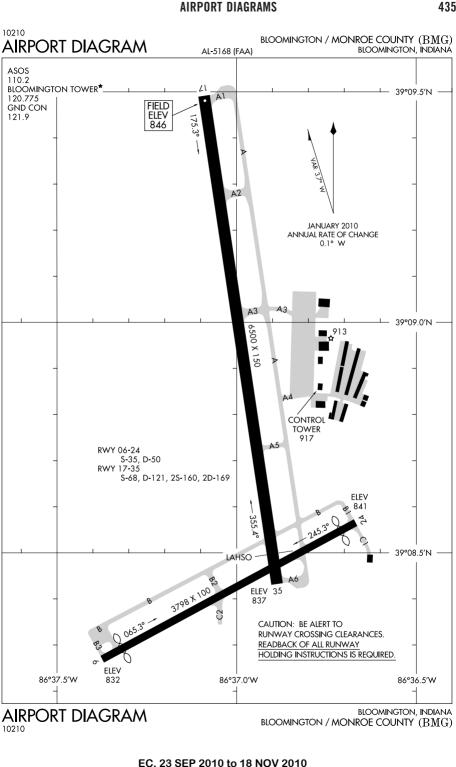


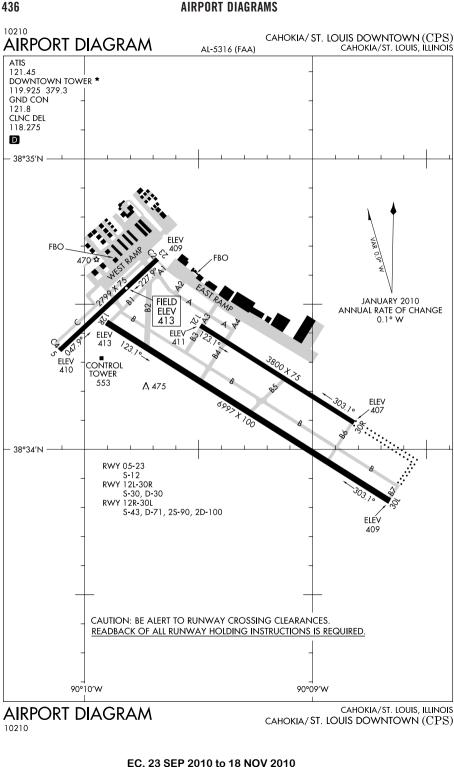


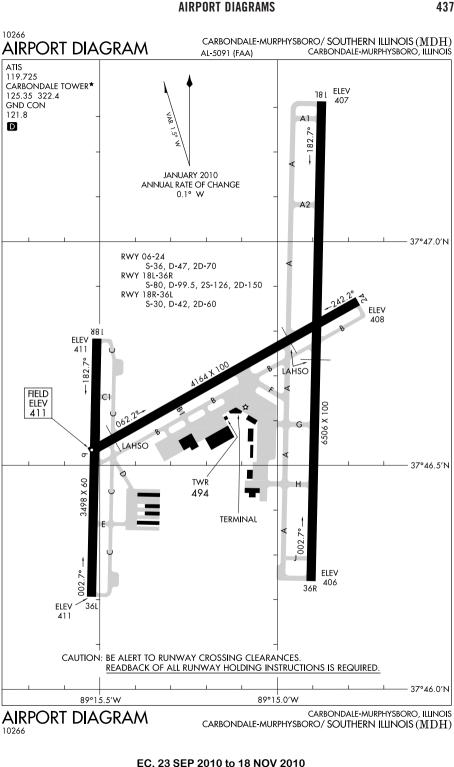


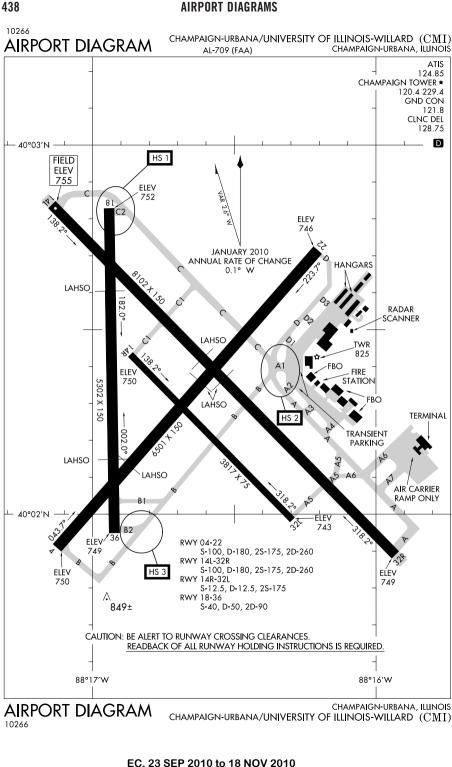


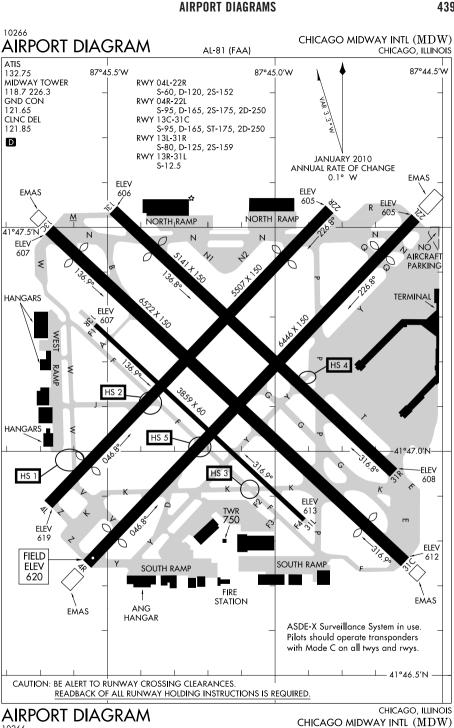




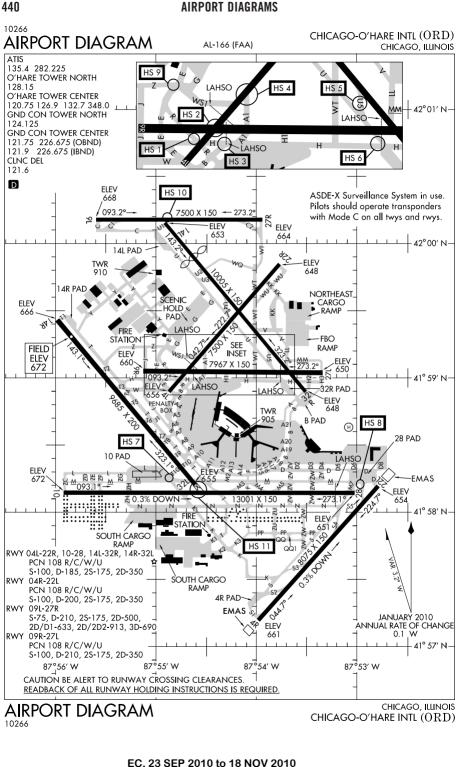


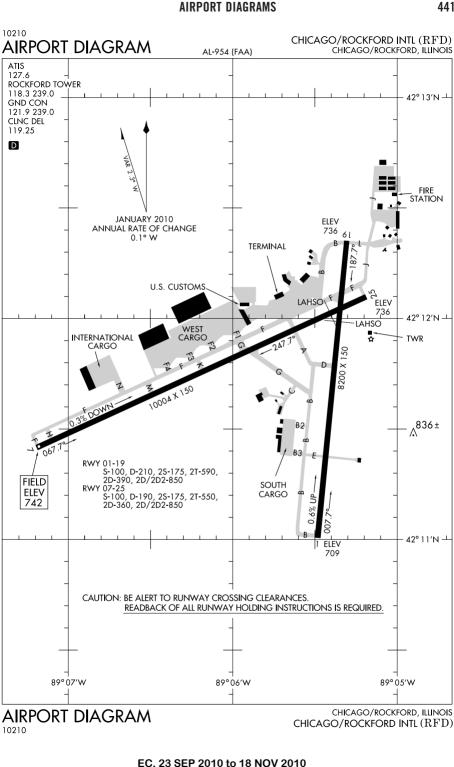


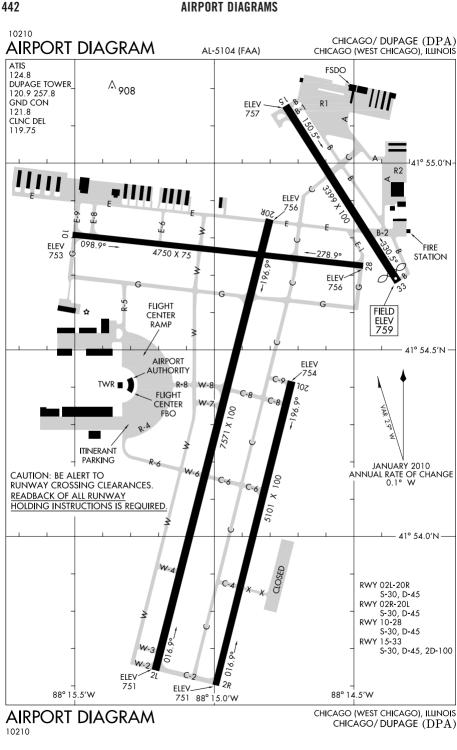




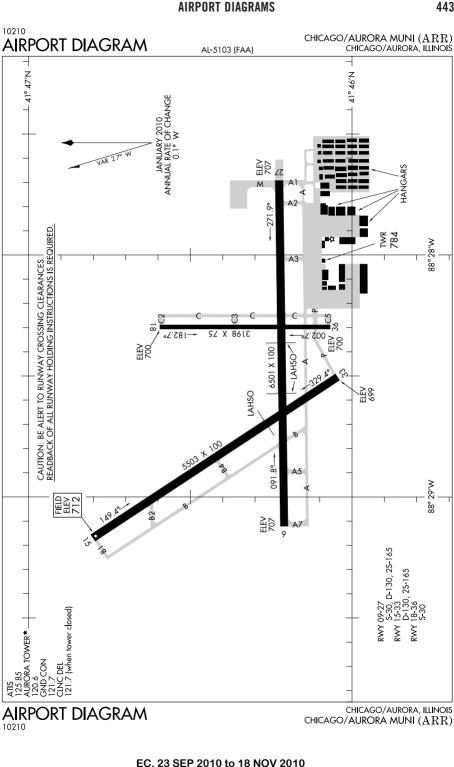
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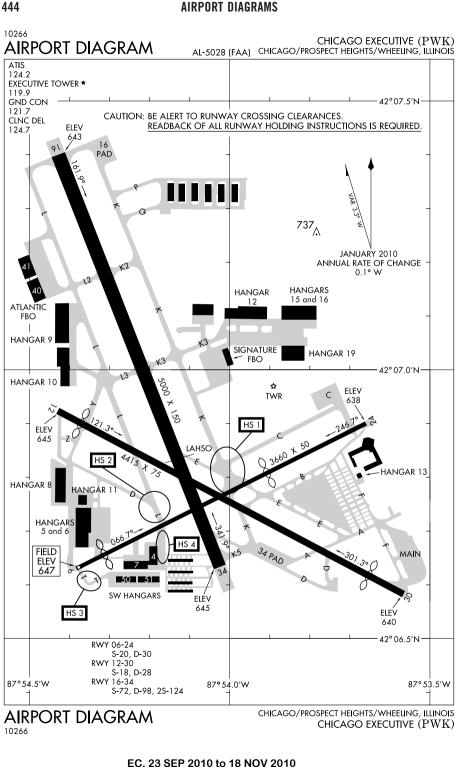


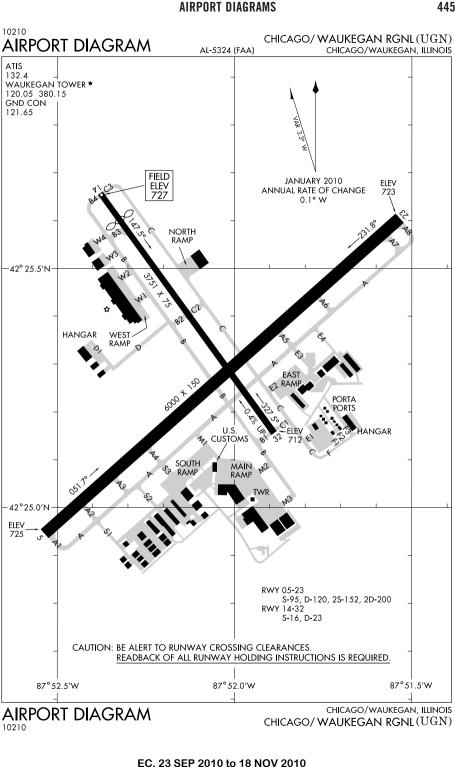


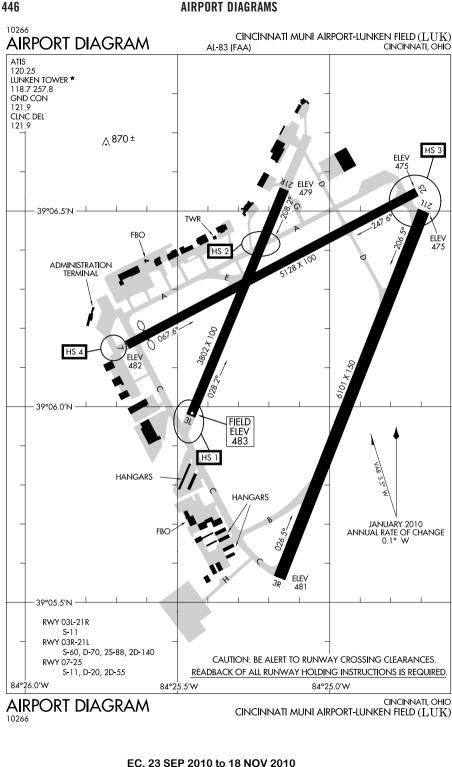


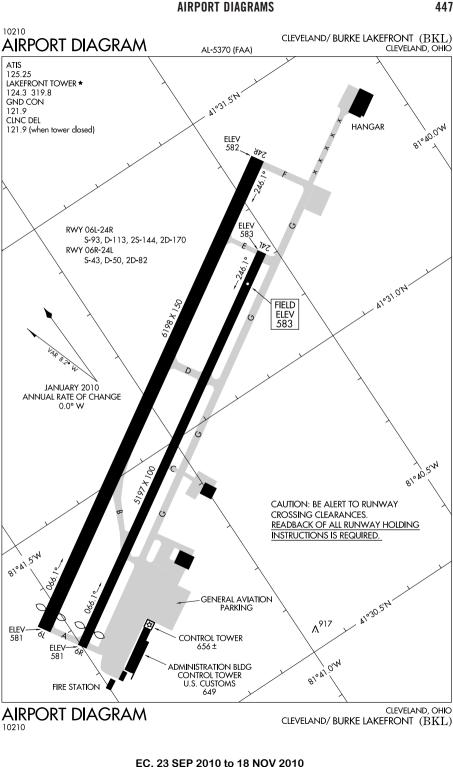
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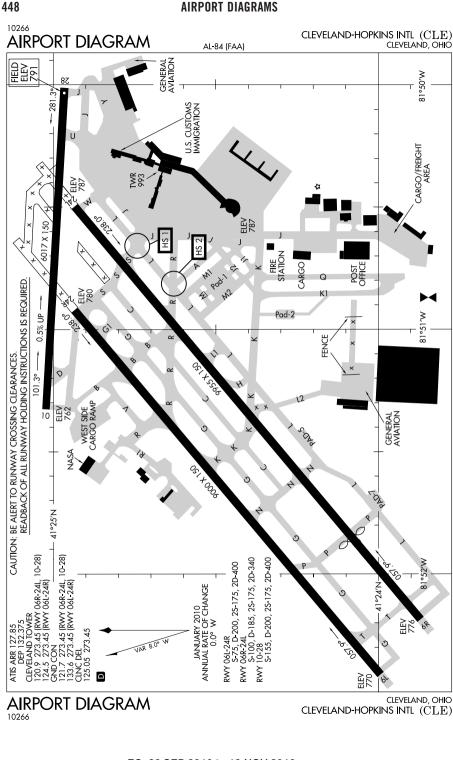




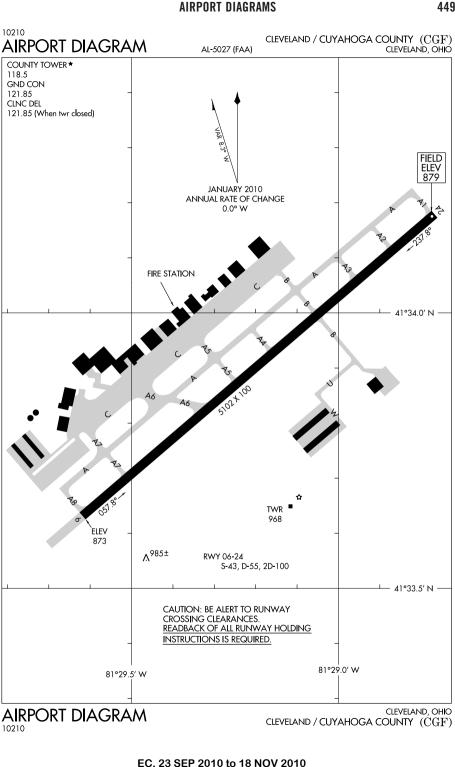


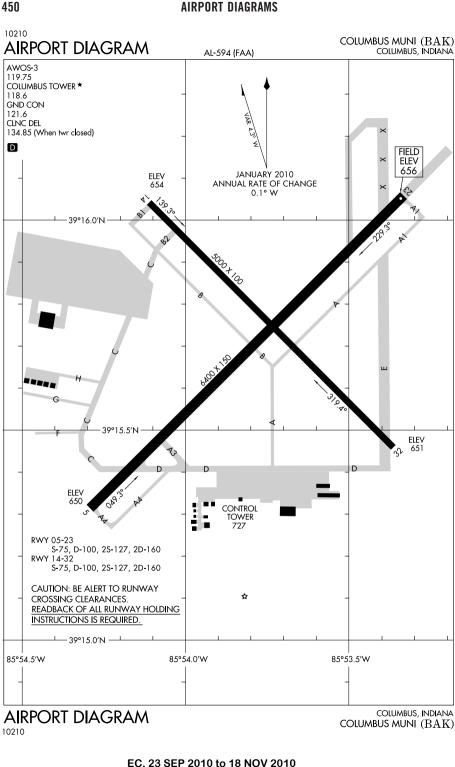


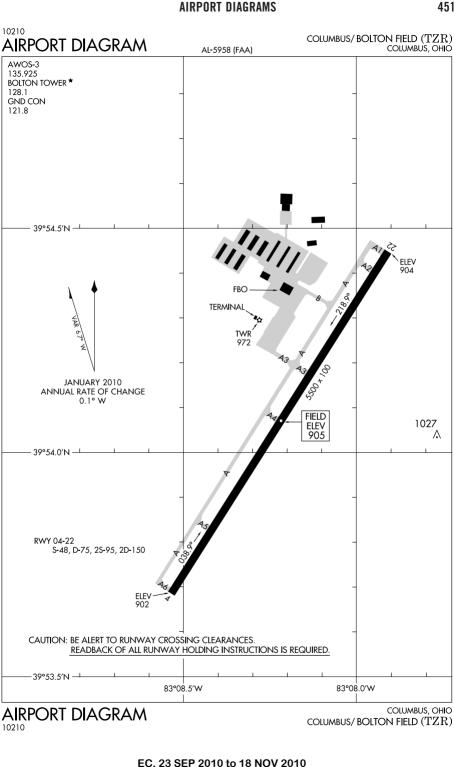


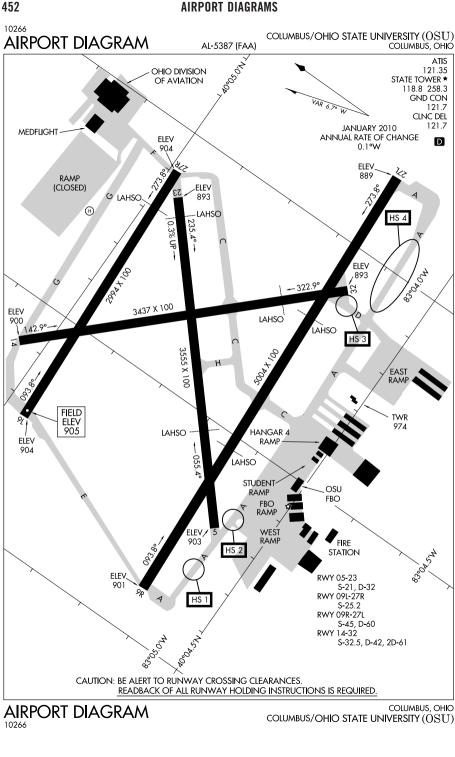


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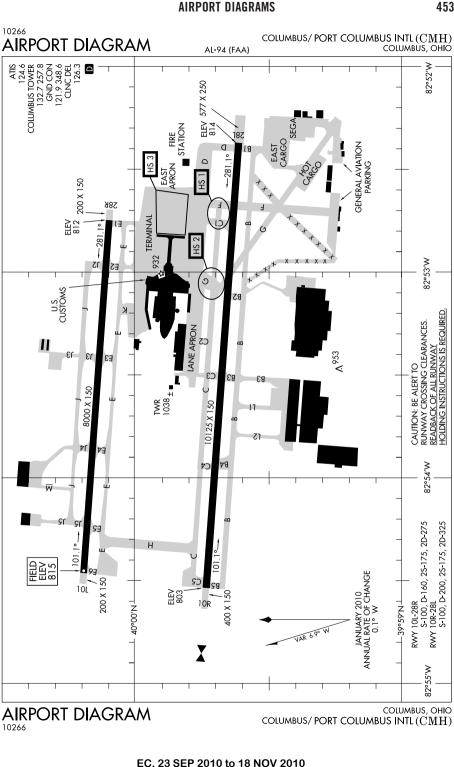


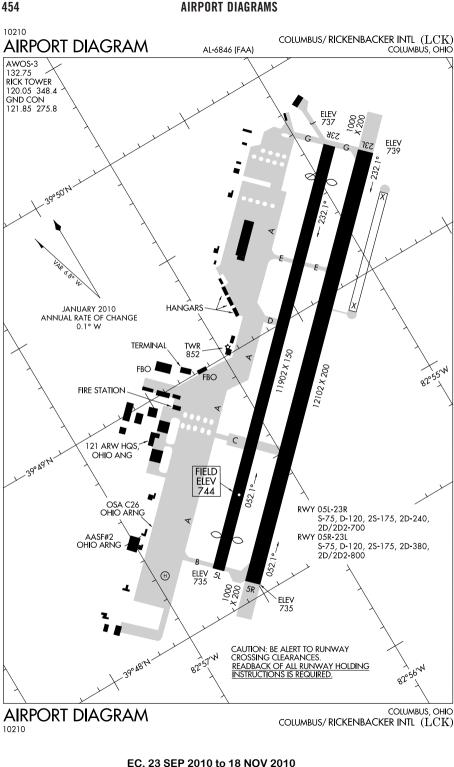


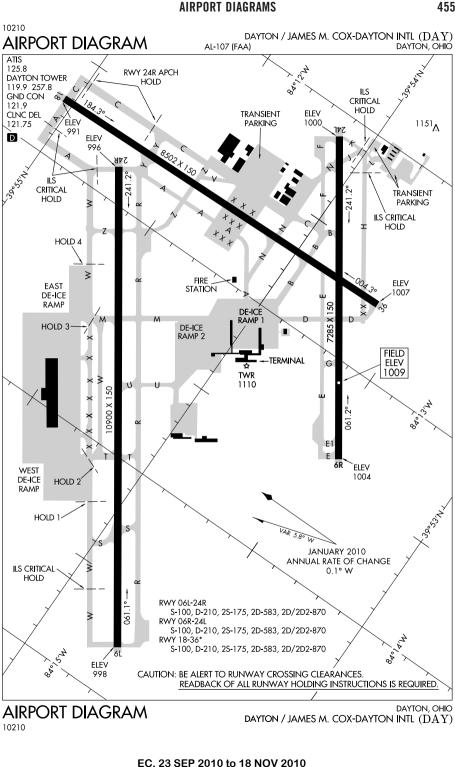


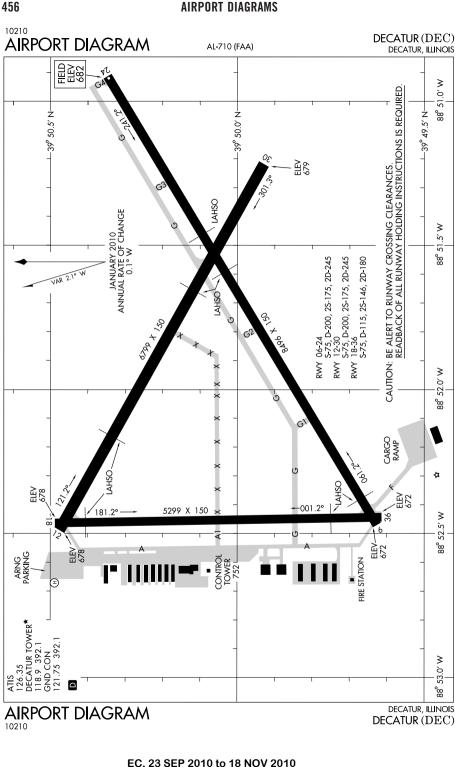


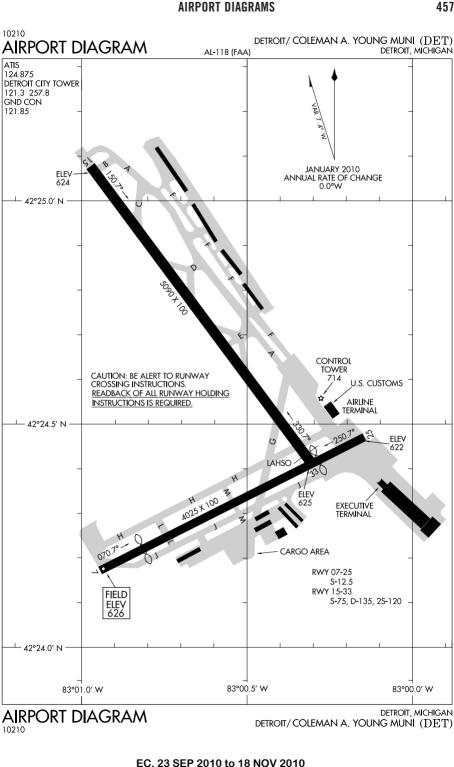
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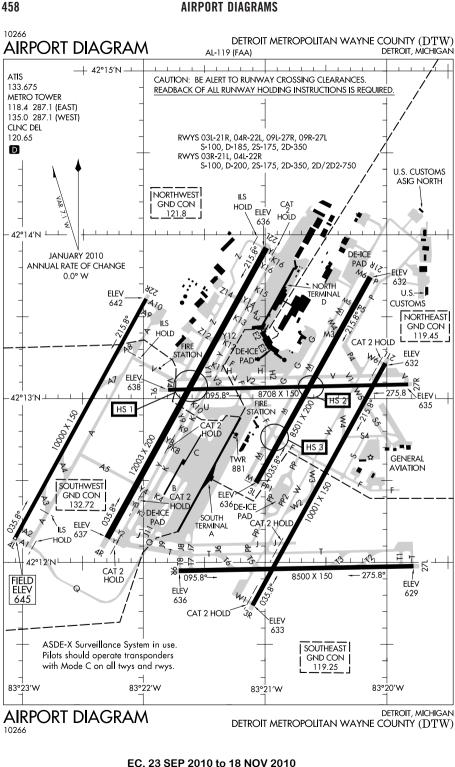


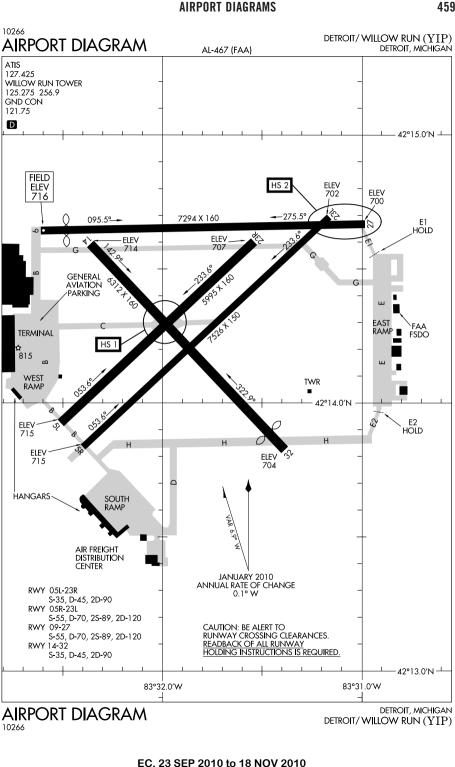


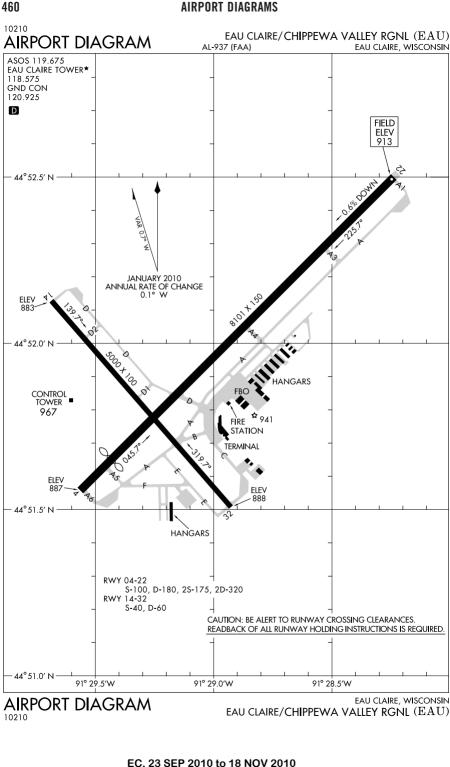


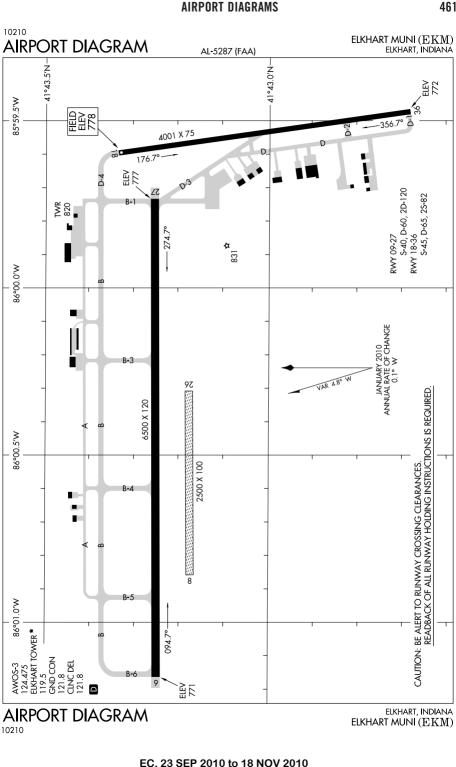


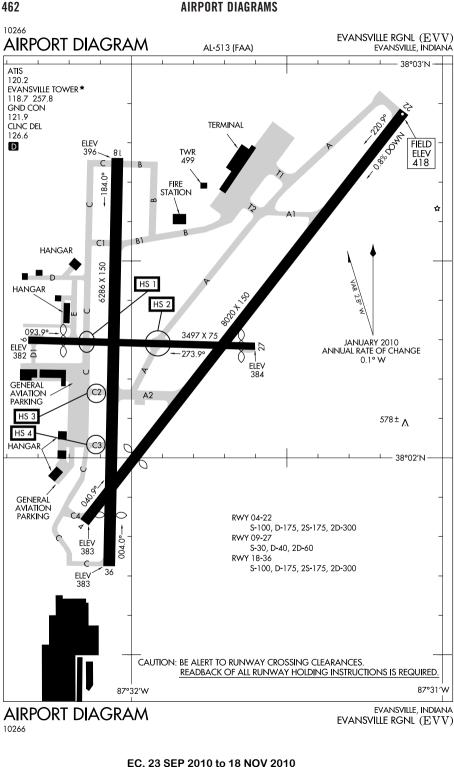


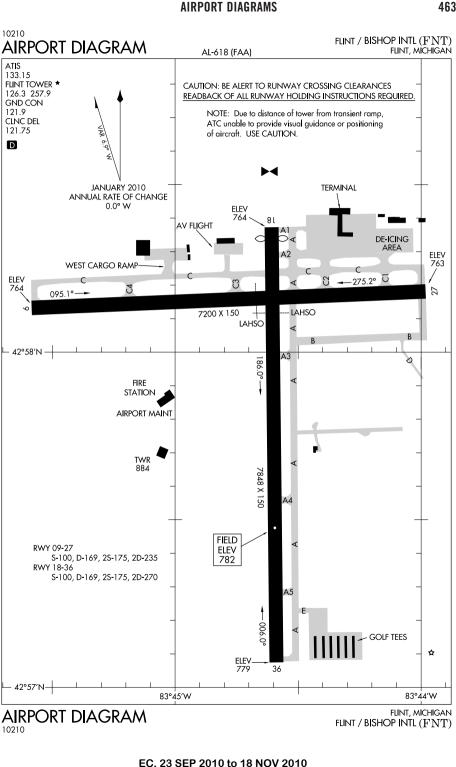


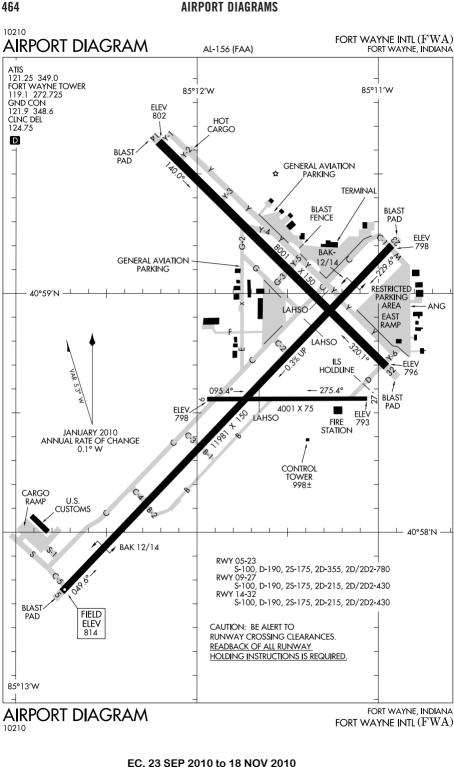


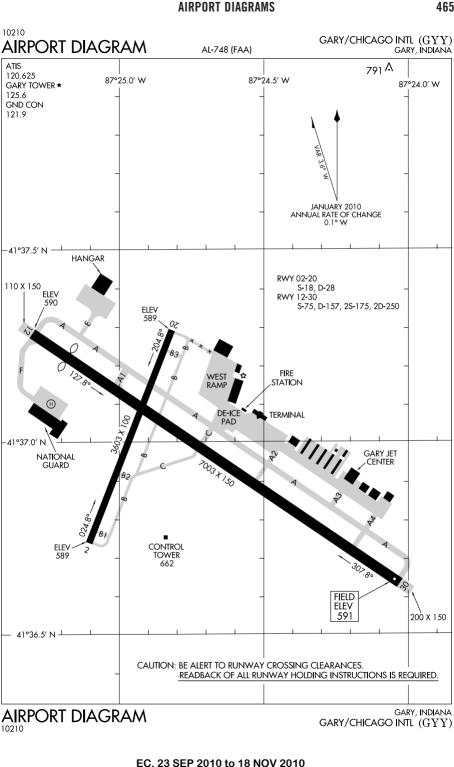


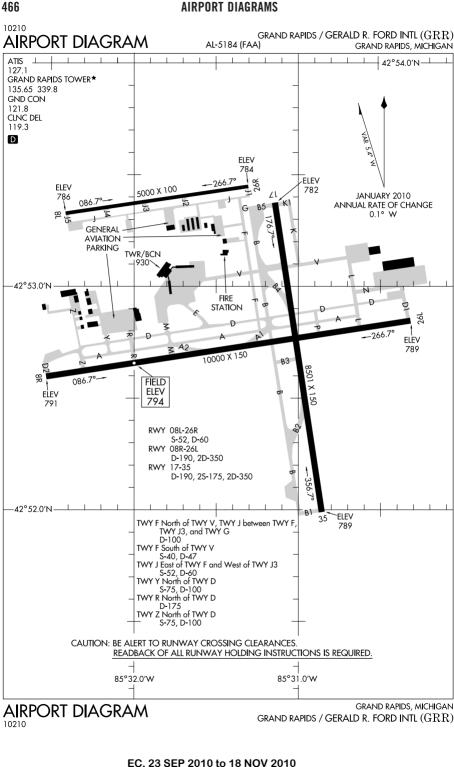


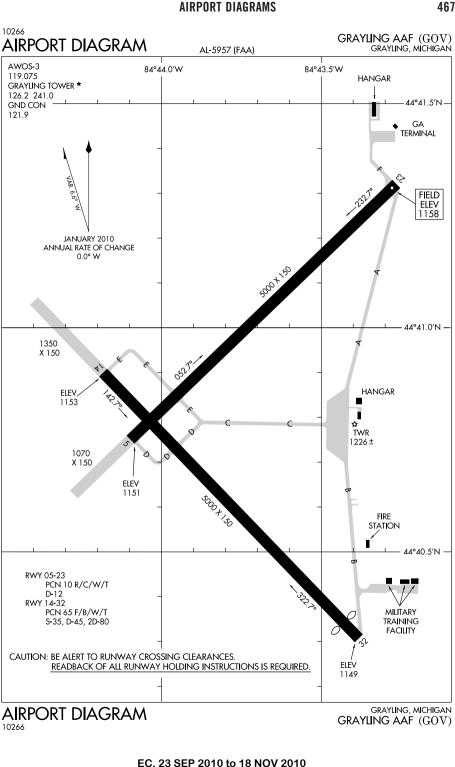


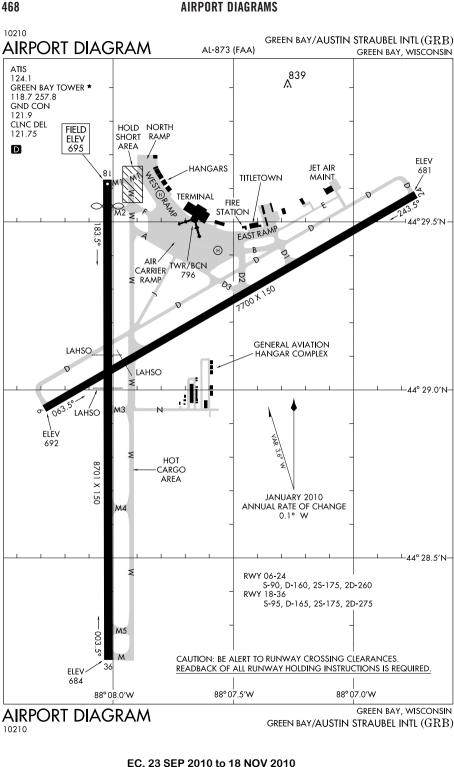


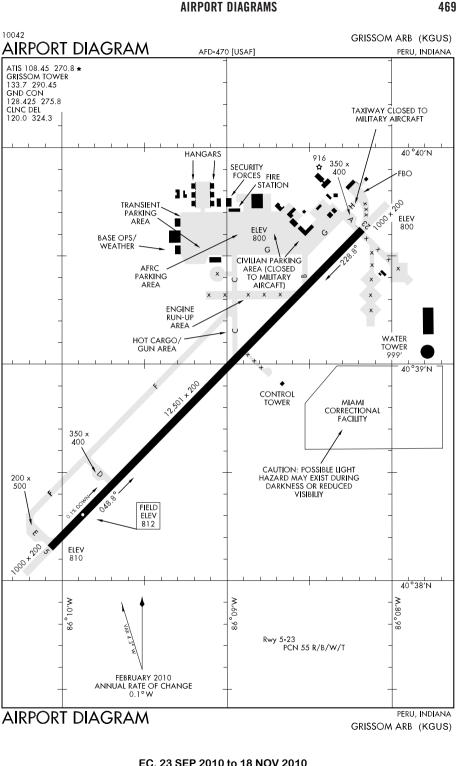




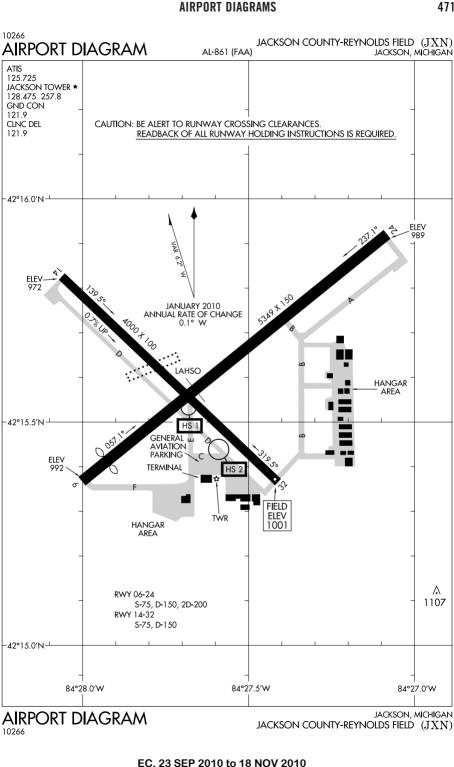


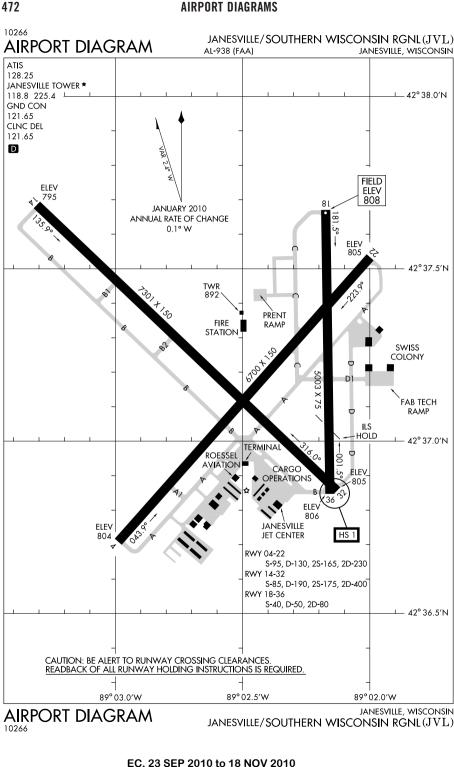


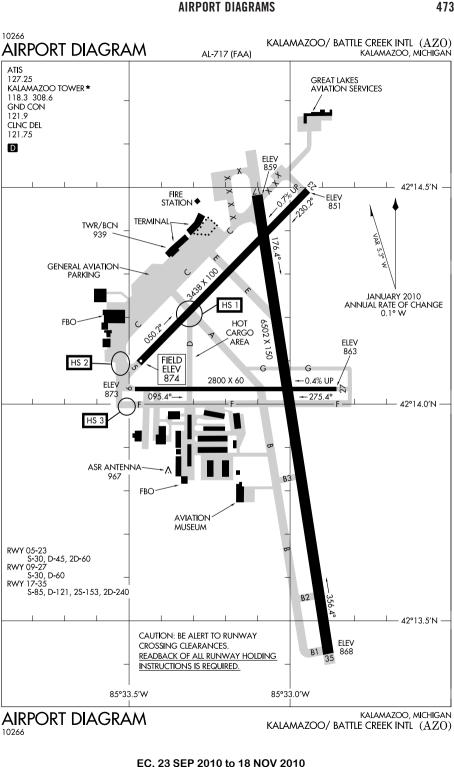


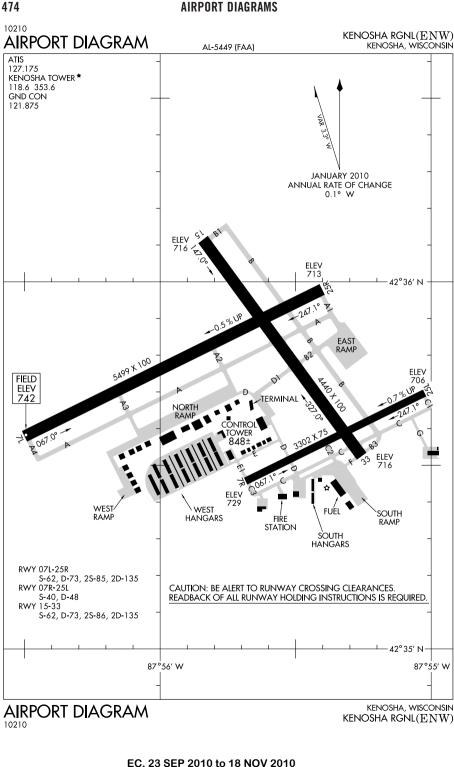


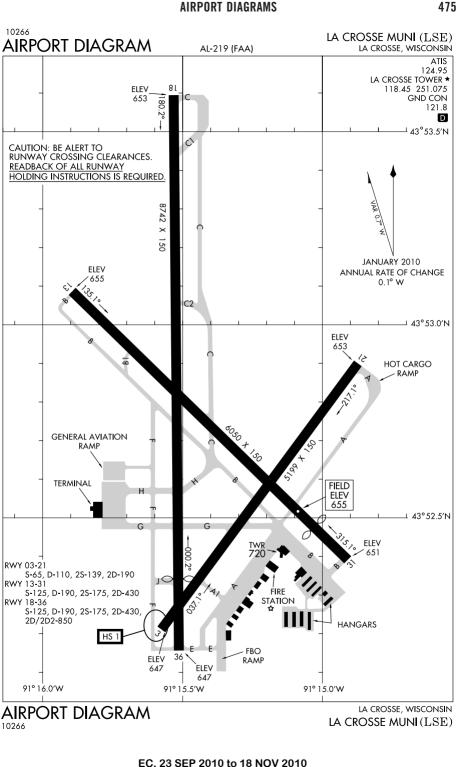
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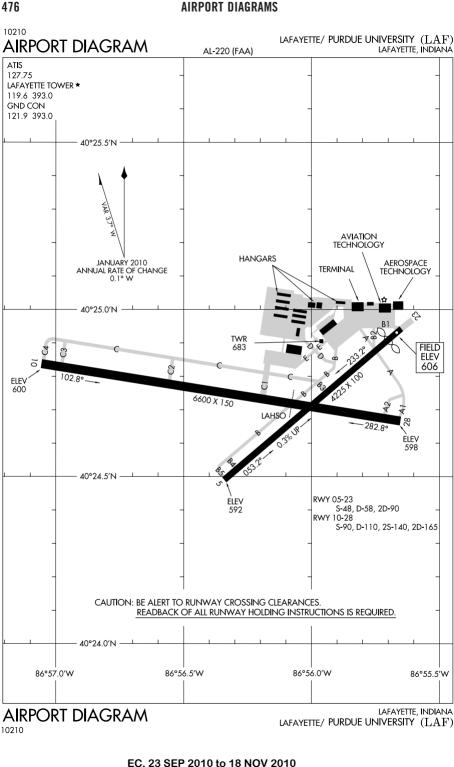


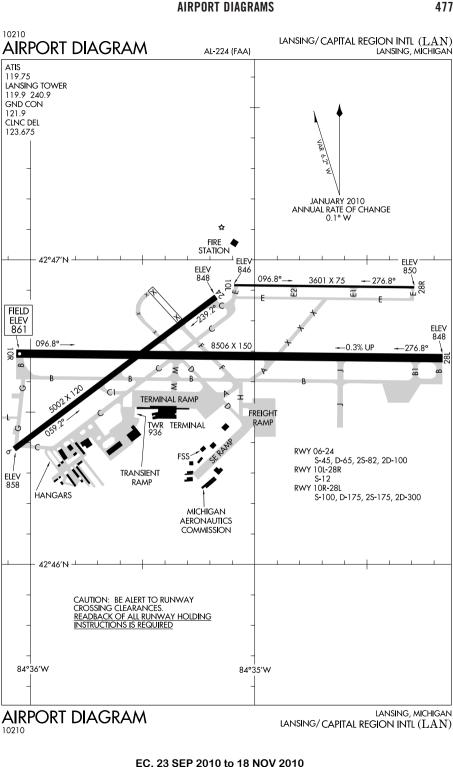


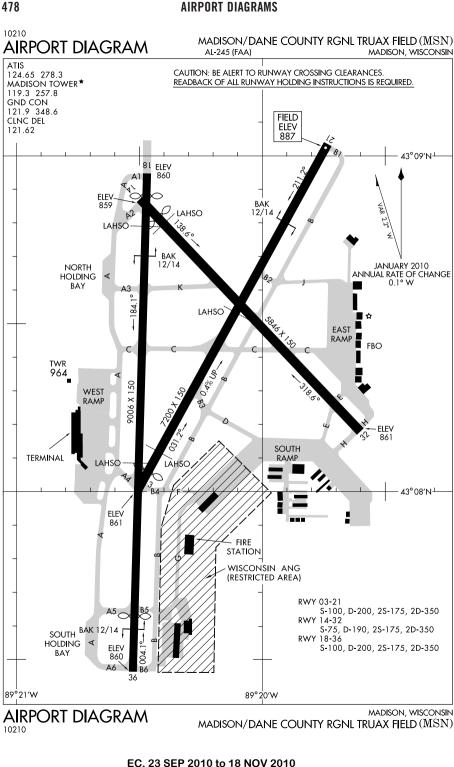


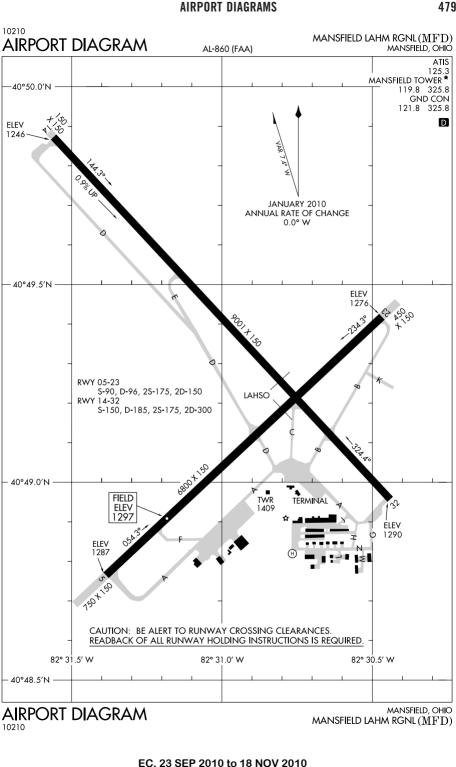


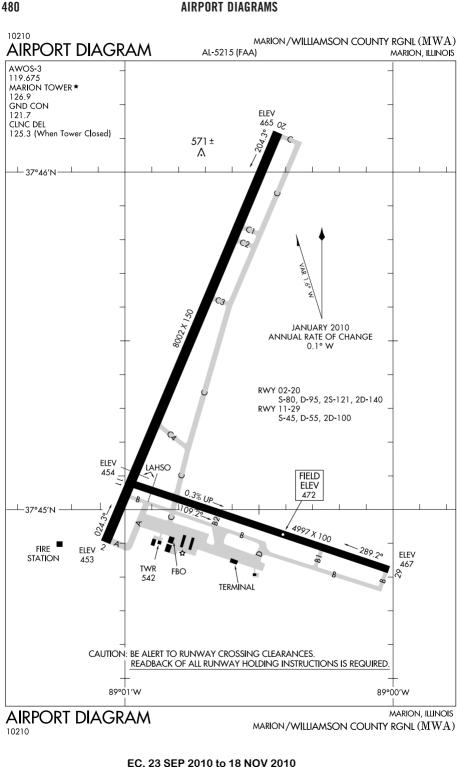


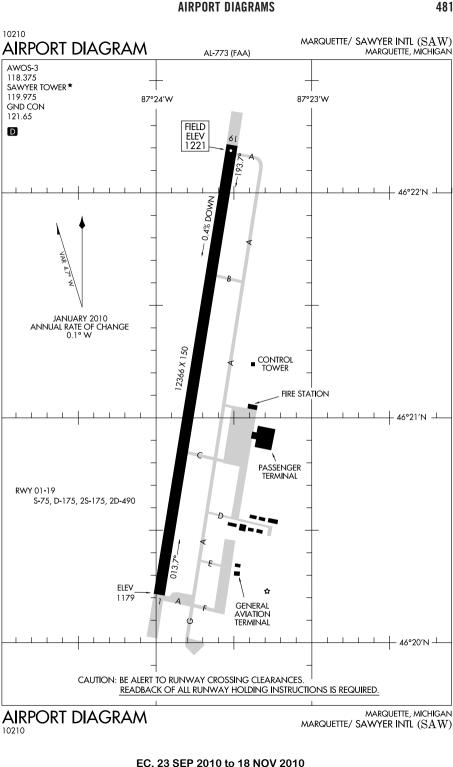


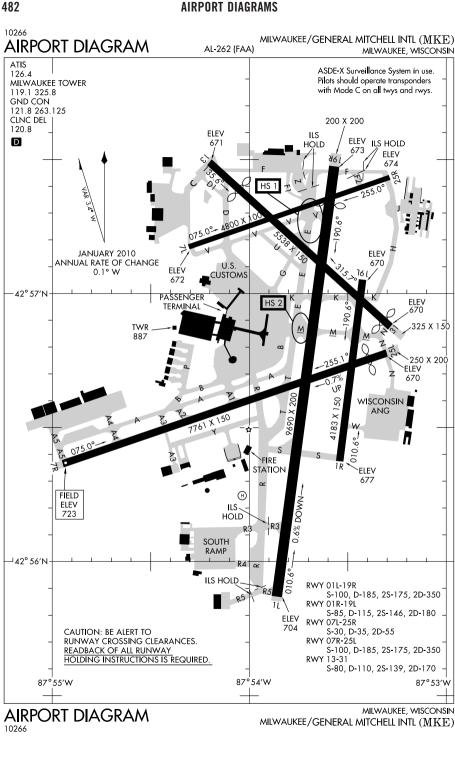




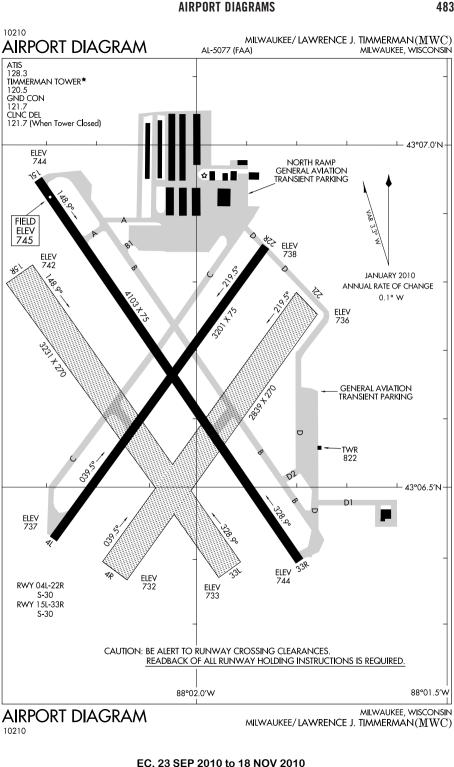


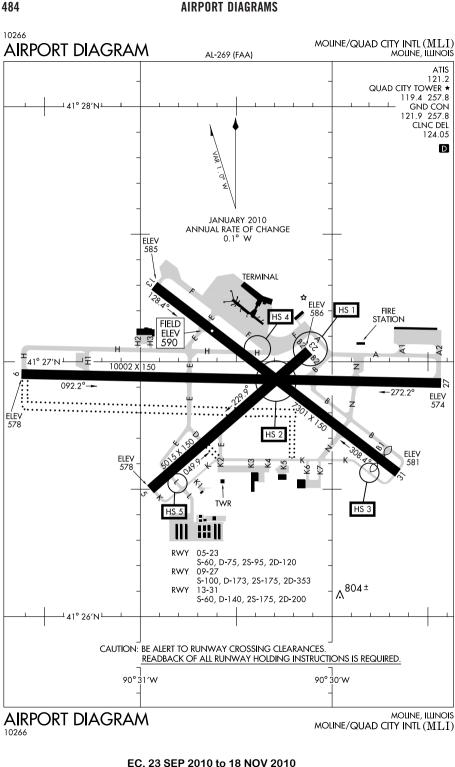


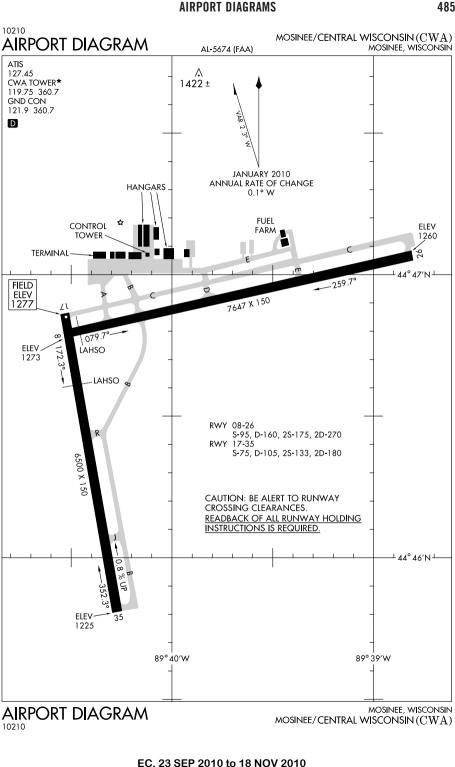


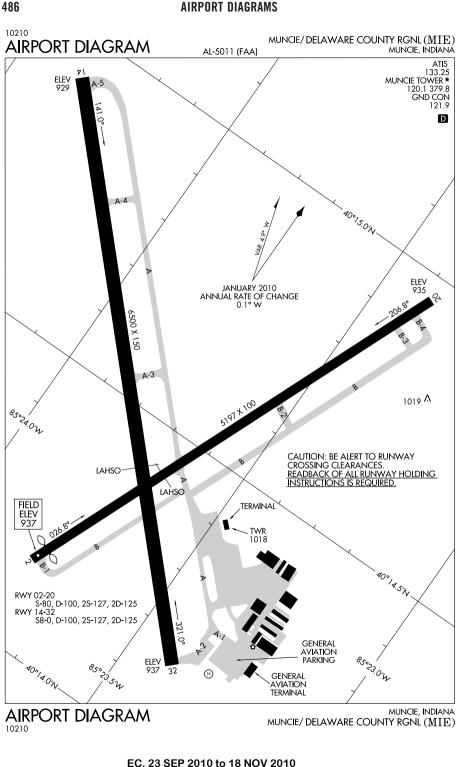


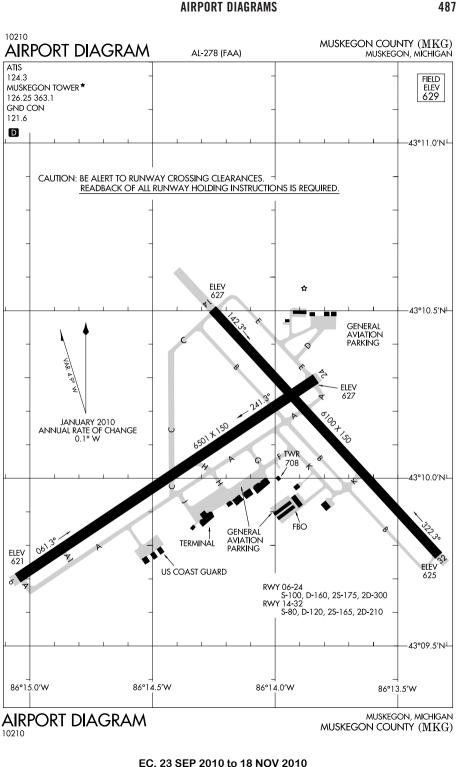
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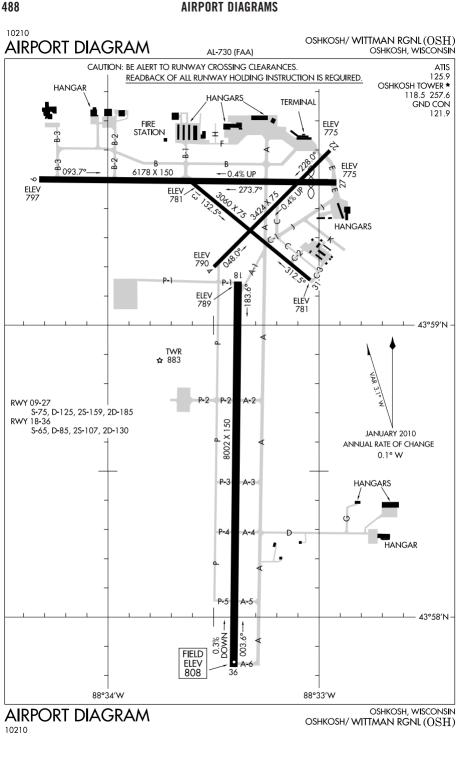




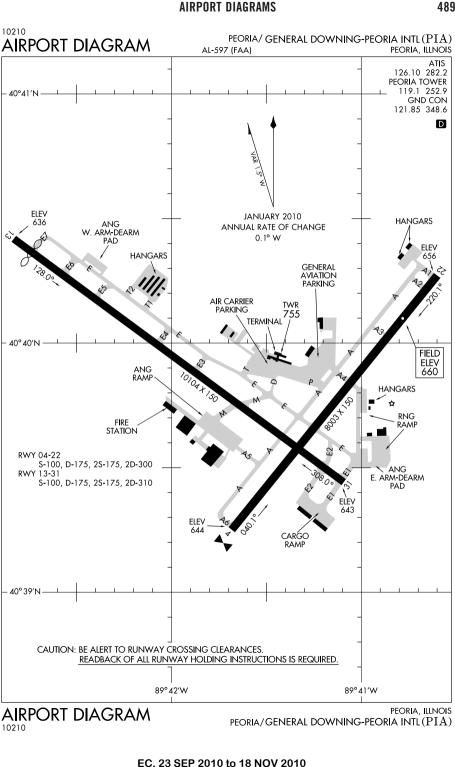


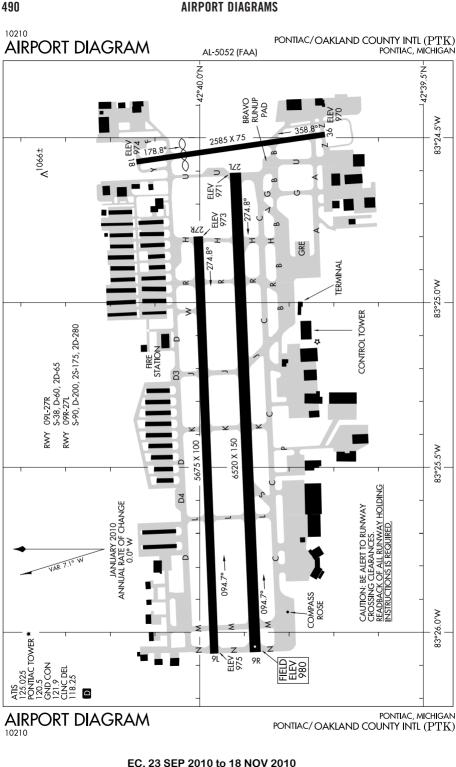


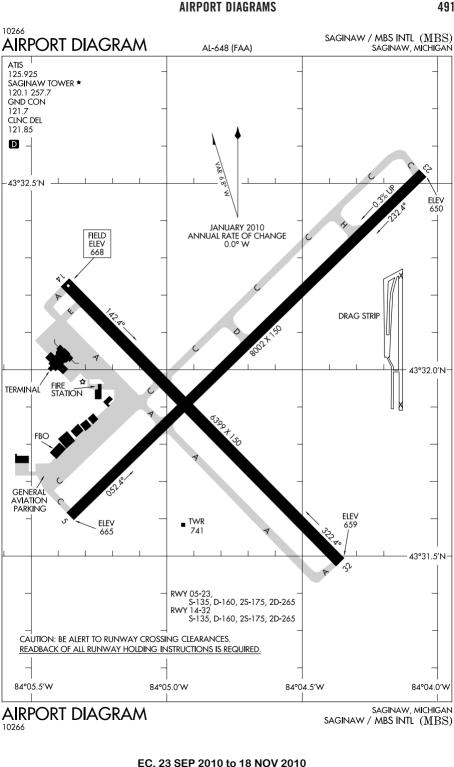


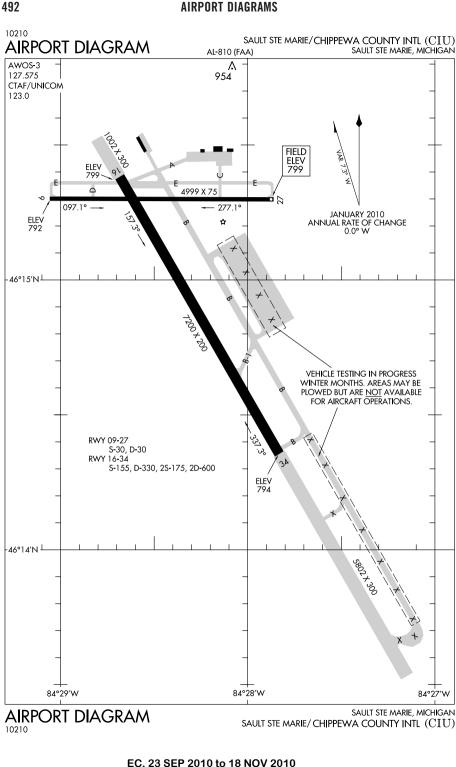


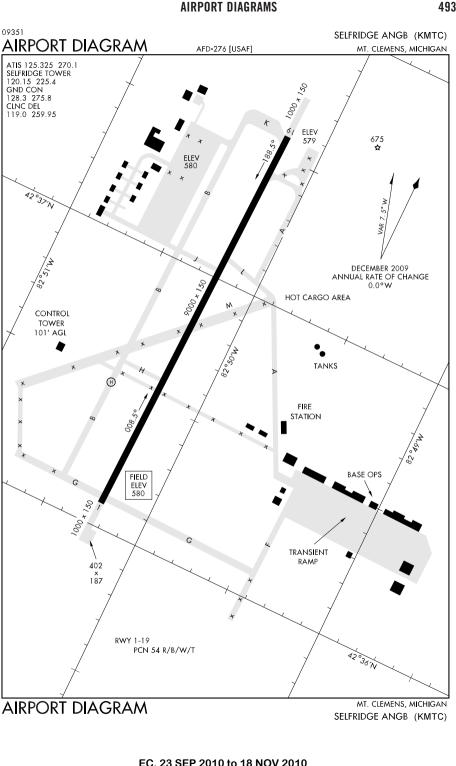
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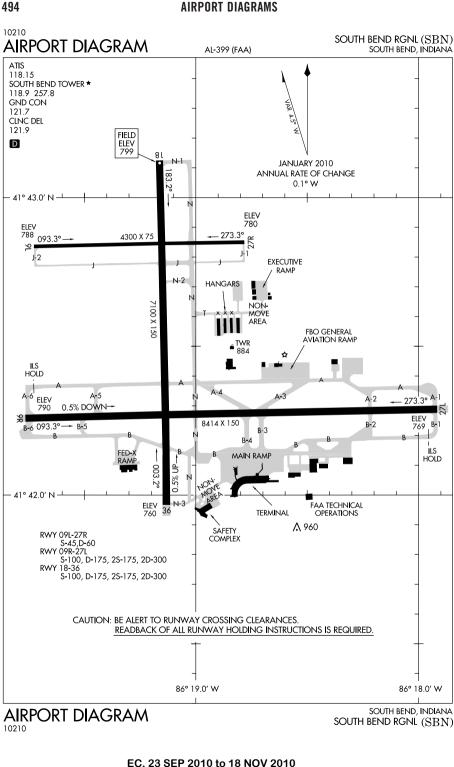


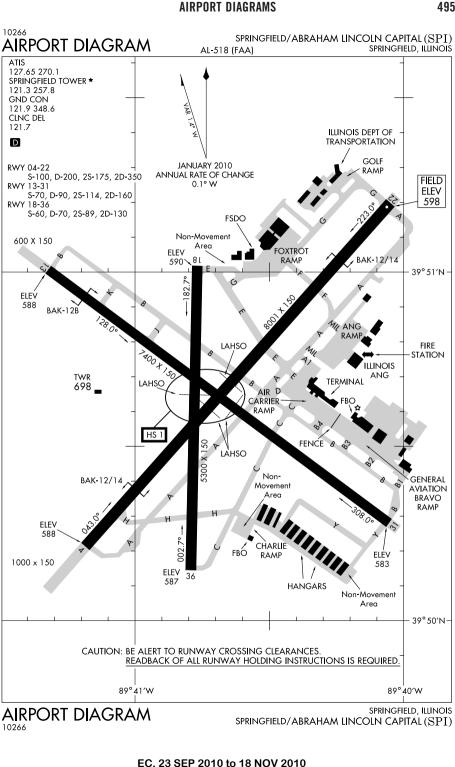


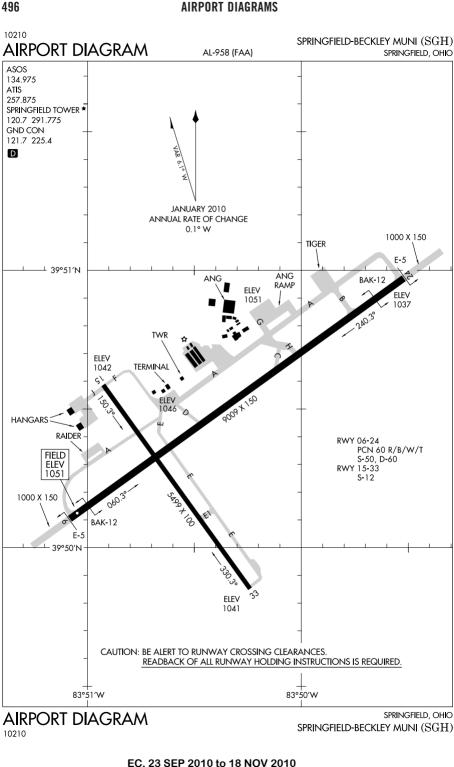


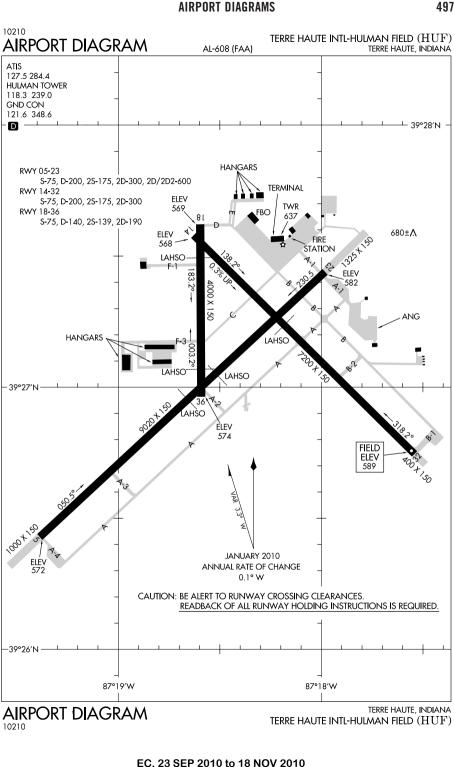


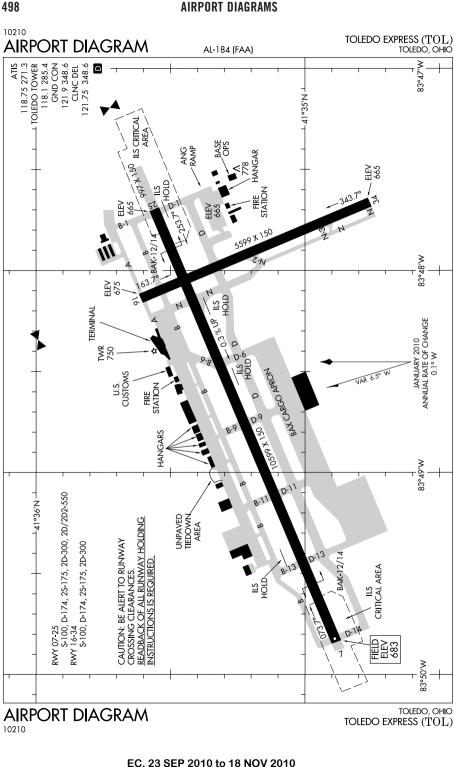


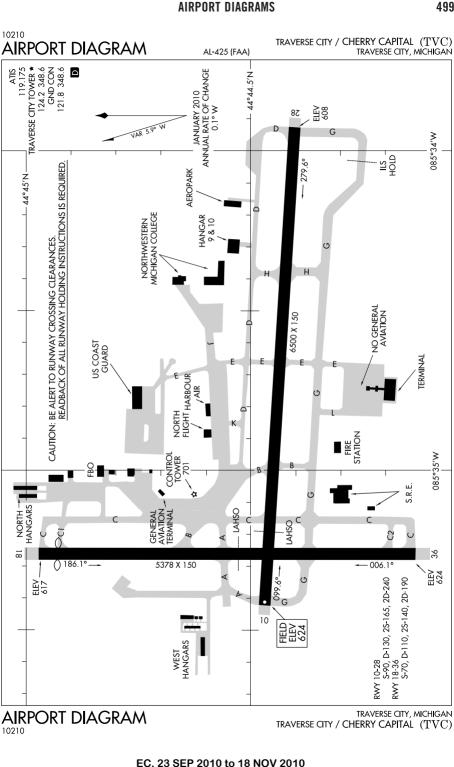


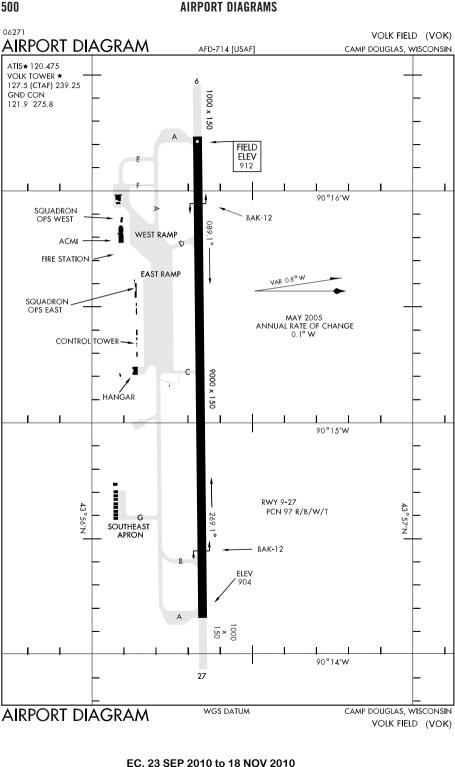


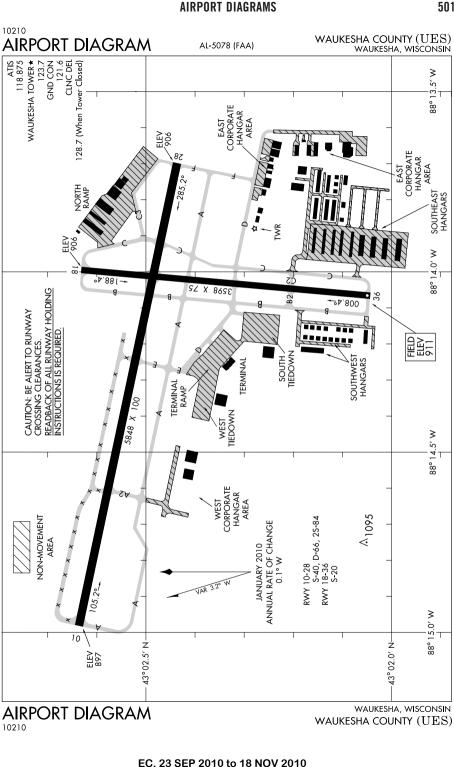


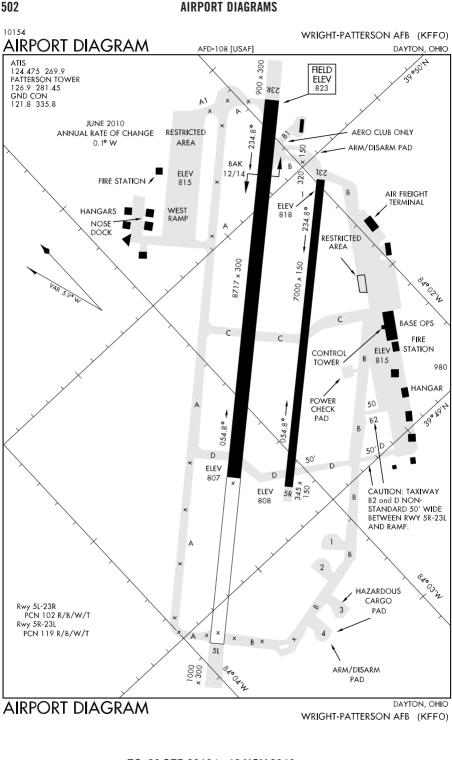




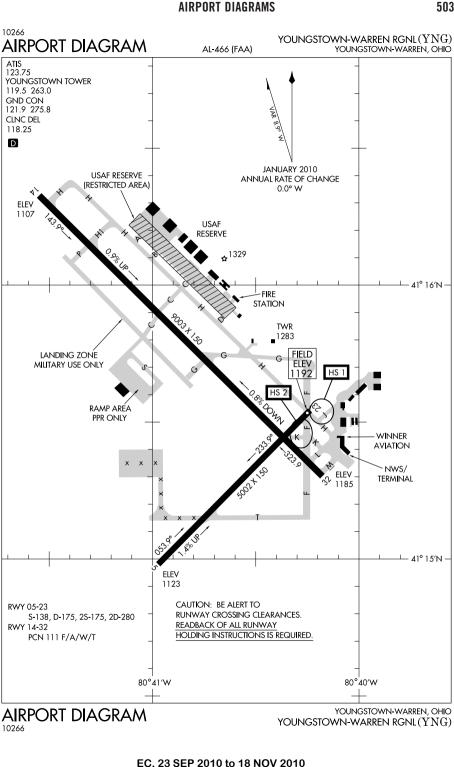




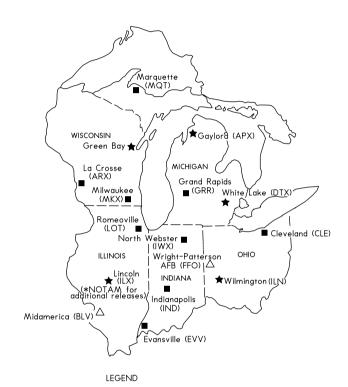




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NATIONAL WEATHER SERVICE (NWS) UPPER AIR OBSERVING STATION (UAOS) AND WEATHER RADAR NETWORK

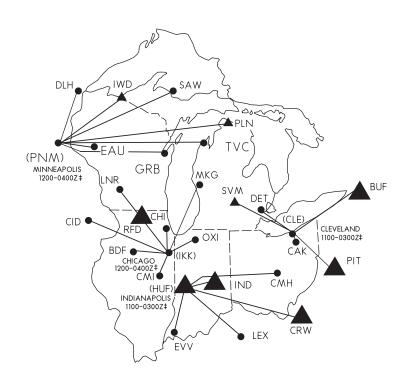


- ∧ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION HYDROGEN FILLED BALLOON RELEASES AROUND 1100 UTC AND 2300 UTC DAILY/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASES AROUND 1100 UTC AND 2300 UTC DAILY
- O OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE AND/OR EARLY AFTERNOON

NOTE: FOR RELEASES LATER THAN 1130 UTC AND 2330 UTC, AND FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED HOURS, AN AERONAUTICAL INFORMATION MESSAGE OR NOTAM* WILL BE FILED.

ENROUTE FLIGHT ADVISORY SERVICE (EFAS)

See Aeronautical Information Manual (AIM) for available services



CHICAGO EFAS HIGH ALTITUDE FREQUENCY 134.875 CLEVELAND EFAS HIGH ALTITUDE FREQUENCY 135.425 INDIANAPOLIS EFAS HIGH ALTITUDE FREQUENCY 134.825 MINNEAPOLIS EFAS HIGH ALTITUDE FREQUENCY 135.675





BOTH LOW AND HIGH ALTITUDE COMMUNICATIONS OUTLET